# **E-ZINE** Magazine for military veterans in the corporate October 2022, Volume IV, Issue 10

# TECHNOVET



FOCUS | PASSION | IMPACT





# **From the Editor**

"Self-education is, I firmly believe, the only kind of education there is" -

Isaac Asimov

#### Dear Readers,

Welcome to the month of festivals in 2022! What better way to begin the month than read your favourite magazine with a cup of coffee in hand. Reading and learning go hand in hand. If you wish to stay on top of your profession and career new learning must never stop. As newer knowledge areas are uncovered in the universe, there is that much more to discover and learn in this world for you and me.

**Brian Tracy has this to say** "Those people who develop the ability to continuously acquire new and better forms of knowledge that they can apply to their work and to their lives will be the movers and shakers in our society for the indefinite future."

Now with the enhanced progress of technology there are both newer vistas of opportunities opening as well as newer challenges. In the world, today we are at the cusp of the onset of such a transformational technology revolution with the advent of Web 3.0, Blockchain, smart contracts, digital assets, crypto currencies, metaverse, AR, VR, MR and more. It is in this context that we advise our members to become tech savvy irrespective whether their role is tech or non tech. One needs to at least have a functional understanding of the technologies so that one can deploy them usefully in business or one's job role productively. It is with that intent we have selected the theme for this month as **TechnoVets** – *Veterans who are keen learners of technology*. TechnoVet need not be someone learning high tech research, it simply conveys someone who has shed his fear of tech and is keen to learn. It might mean learning advanced MS Excel, getting a tech certification, leaning new tech trends and more.

At Forces Network we encourage our members to become TechnoVets. Traditionally veterans are stereotyped as tech averse and tech shy. It's time to break that barrier. We have broken so many glass roofs at Forces Network already. We encourage all members to take up this new mindset, for if we are to create a generation of tech savvy and tech respected veterans the time to begin is now and the person to begin with is you.

Come let's all become TechnoVets!



Jai Hind

Yours Techo, Capt Rajesh Nair



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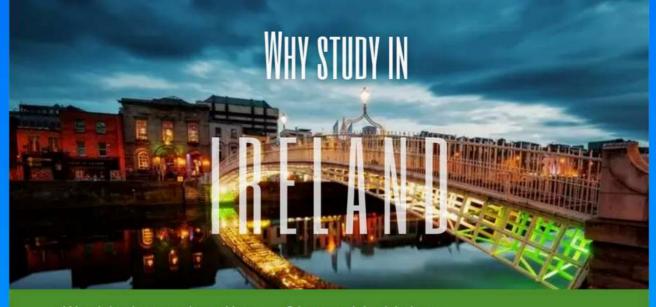
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- Privacy Qualifier to find out a privacy requirement for an organization
- Various Privacy frameworks (Eg: Indian DP Bill, HIPAA and other contemporary regulations) in the industry and the comparison
- Privacy Impact Assessment

#### Week 2

- Establishment of Privacy Policy
- Privacy controls and implementation
- Ensuring Privacy Compliance
- Privacy Audit & Real-world Privacy cases
- Privacy Exam

**Eligibility:** Students in final year graduation, graduates and industry professionals

#### Week 3

- Definition of Data Protection (DP)
- DP Qualifier to find out a Data protection requirement for an organization
- · Data life cycle stages and security
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#### Week 4

- · Contractual Data Management Security
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Intended outcomes:

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- Update knowledge on Physical Security & Cyber security
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Intended outcomes:

- Understand the concept of Security Management.
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- Understanding Security Technology Systems.
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- Attaining awareness on Emergency and Crisis Management & Conflict Management
- Knowledge of the legal aspects related to security.
- Proficiency in firefighting and safety.

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- Designs of drones and power systems, Controllers, Transmitters, Receivers & Flight controllers.
- Payload considerations like: Cameras, Gimbals & usage in drone flying/ maintenance.
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- Drone flight simulator and simulator training.
- Understanding GIS data Formats, Design and Quality, Acquaint with Geospatial and environmental Analysis.

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For Registration and further details on the course and schedule, please contact:

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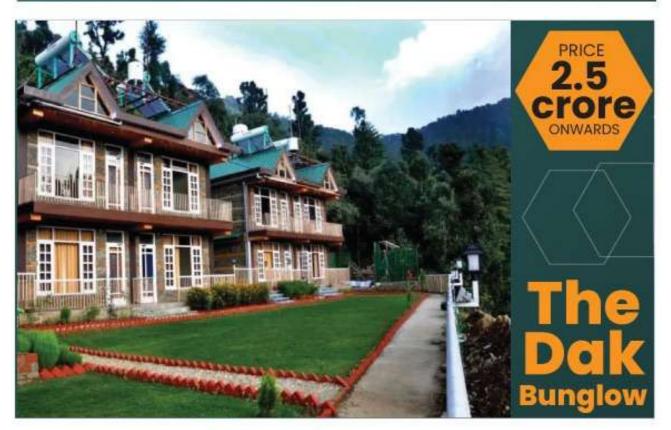
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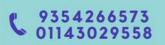


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## A NOTE FOR THE READERS

This is an interactive e-magazine, with active links on many pages, including the advertisements, which can be used by just tapping/clicking on them. For the ease of providing a feedback, such links have been provided at the end of the articles too.

**Disclaimer**: The opinions expressed within this e-magazine are the personal opinions of the authors and interviewees. The facts and opinions appearing in the articles thus do not reflect the views of Forces Network, and Forces Network does not assume any responsibility or liability for the same.



## **Star of Forces Network**

A Forces Network Star is a member of the Forces Network who has gone on to achieve glory in the his/her corporate/civilian avatar. The aim of this series in not just to celebrate our successes from the veteran community, which unfortunately we do not do enough, but also to inspire others. The ultimate goal is to set up a virtuous self-sustaining cycle of inspiration leading to more successes in turn inspiring many more.

#### IN INTERACTION WITH RAJESH NAIR

**Maj Rishi Raj** was commissioned in 12 Engineers on Mar 2003 from Officers Training Academy. He is a B Arch. He was part of the team for longest Bailly bridge at Siachin and other engineering, he also served as Instructor for Special forces school. Post his army tenure he has managed and delivered large residential, commercial projects and world cities in different geographies of India. He has Expertise in planning. Implementing change, setting new benchmarks, handling P&L, contracting, liaison, and customer handling



## Rajesh: Please tell us something about your background prior to joining the Army, and your subsequent Army career?

**Rishi:** Creativity provokes oneself to learn and appreciate every tangible and intangible aspect of life. Real Estate probably satiated my hunger on this front even though it was a second choice to the Uniform. So inspite of 4 years into Real Estate, having been a part of a handful buildings in Mumbai, the fire was still on and one fine day it was my privilege to put on the uniform.

12 Engrs became my next home, which helped me explore myself all through Siachin, North East and the Special Forces in addition to the other postings and trainings through the tenure. Life probably had other plans and this privilege was short lived, 5 years through this exhilarating experience it was time to come back to the civil life with family.

Bachelors in Architecture was a beginning for the professional career, followed by Armed forces that made a man out of me and the subsequent part has made me a Civil Engineer by profession.



Post Commissioning



#### Rajesh: Please give us more details about what you are presently engaged in?

**Rishi:** Currently it is the Real Estate which is keeping me busy in the journey of life. Learning the nuances of the industry seems to be ever expanding with the new trends growing at rapid pace. Having the responsibility of operations of several projects spread over Pune opens a pandora box with different challenges.

Engineers of today seem to adapt faster than us, however the discipline and control that the forces has instilled into our fabric helps to resolve these challenges. Handling multiple projects of different scale and in different geographies evolves us to handle such critical situations with ease.

Working with consultants, engineers, labours and customers right from the inception of the design to the delivery of project is a great experience to relish.

#### Rajesh: How did you prepare yourself for the military to corporate transition?

**Rishi:** Moving out from the forces seemed like moving a mountain and at times coming under that mountain. My last posting was as an instructor to the special forces and they were actually special in more ways than one. Officers and PBORs alike extended their support for my transitions and were all like course mates to stand by for support.

A General management programme from the elite institutions (IIM and its likes) was a life saver as back then, we did not have access to the likes of Col Iqbal and the Forces Network which is a life saviour today. Connecting with others and talking to the corporates was our way of ensuring that we stabilised before we actually took the plunge in the corporate world. Previous connect with the corporate world did the magic for many in our group while some were daring enough to start on their own ventures. What was important that we all stood strong together.



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#### Rajesh: What are the learnings from the early stage of your career? Rishi:

- Team work and Trust pays off in the long run
- There are no shortcuts
- Hard work and dedication cover the most for Murphy's Law

#### Rajesh: What were your challenges in your military to corporate transition?

**Rishi:** M2C transition was a bumpy ride and it took some time to adjust to the fact that now the secure zone of defence would be out and we will now be in the open to face the civil life again.

Getting to study and updating the systems in the civil world had begun all over again. Getting a secure job with brand company vs high paying job with fresh company without systems were decisions to be taken. IIM professors gave all the support for how to attend interviews and write resumes.

Understanding the nuances of war and Part D exams had just been over when accounts and technology flooded with new jargons. It took time to understand that there was nothing called as orders to be given or to be followed, and same thing had to be said several times and still being missed out without being recorded.

People could take leaves at their will because they had a cough or a headache in the morning. There were enough and more things without clear SOP and lot of ambiguity. Welcome to the unorganised sector of real estate was the norm.



#### With My Team

#### Rajesh: How is it working in your industry where there are so many challenges?

**Rishi:** Second innings in the Real Estate was not the same, as people did not seem to care so much about the discipline of things as in the armed forces and it took me time to get accustomed to it. Being physically fit helped to stay ahead of the engineers on the site and not just be a paper tiger of the corporate world. Learning was quick though adaptation took some time, but today it seems to be in a better control. Don't be afraid to start over again. You are not starting from scratch, you are starting from experience.





Industry Recoginition

#### Rajesh: Is Real Estate an avenue for Veterans?

**Rishi:** Hard core construction may seem to be niche for the defence fraternity due to lack of exposure of defence with the systems prevalent in corporate civil engineering. However Veterans from any and every stream of defence have found their calling here and are doing really well. Real Estate is an unorganised sector which holds a lot of promise in different departments of HR, Sales, Marketing, Admin, Logistics, Liaison, Legal, etc

## Rajesh: Do you have any other hobbies or interests, which you pursue passionately? And how?

**Rishi:** Real estate construction field is amongst the most unorganised sectors in the corporate and gets one to go off-track pretty often. Being one with self and nature helps to rejuvenate and jump back to life with more passion and vigour. Listening to soft music, sketching, trekking or a long drive with family would be a few from the list.



Pursuing hobby with my daughter



## Rajesh: What are your future plans and do have any special goals? And how are you preparing for them?

**Rishi:** Widening the umbrella of responsibilities is the goal for now. Learning and tackling difficulties productively, seems to be the way forward for now.

### Rajesh: We all have had great mentors and coaches in our lives, would you like to talk about them in your journey in the army and in corporate?

**Rishi:** Mr Rajan Narayan was my guiding light to the corporate, someone who always ensured that everyone around was always engaged in something positive and there was enough thirst for more. He was always connected to each employee and also younger than the youngest engineer even while he was in his 70's. Today while he is not physically with me, what he would have done in a particular situation is the thought that inspires me and drives me to move forward.



My Mentor

Rajesh: The armed forces teaches you a lot, what has been your best takeaway?

**Rishi:** Self-doubt of anyone gets transformed to becoming a person who can make a positive change in others life and also inspire them to recognise their self-worth. The trust, support and confidence of the men in uniform helps one to evolve as a better person which is lacking in the civil platforms.



**Family Time** 



## Rajesh: Your views on the role played by family, friends, and well wishers in the transition and in future assignments?

**Rishi**: All of them are the backbone for this transition. A good support helps to focus on the goal ahead and reduces distractions and revisiting decisions. Choose wisely as to whom do you approach for your support. They may make or break your views even before you actually move into the transition. It is them who help you take the first step as well as cover the last mile where your self-doubt seems to take over the brighter side and prevents you from taking that small risk factor.

My Family was with me in the decision for being the first-generation officer. M2C transition was a smooth ride only due to the family backing while pursuing studies as well as moving to different states with my nuclear family even after joining the corporate life. In fact it turned out to be a blessing for my homemaker wife as well as my daughter and son as they got a chance to explore both facets of career.



Giving Back to Society - Teaching computers in a village in Chennai

## Rajesh: Top 5 qualities that you feel are very important for excelling in corporate world?

#### **Rishi:**

- Grit
- Empathy
- Drive positive change (includes learning)
- Integrity
- Discipline



#### Rajesh: Your mantra for the transition veterans? Rishi:

- Life is all about sharing happiness and learning.
- Corporate world is about managing people and situations.
- Be Positive and patient, eventually all things will fall in place.

#### Rajesh: Any message for the forces network members?

**Rishi:** Be the change or drive the change else the corporate will change you. Corporate world may be technically sounder than us in their field but we are still from an elite group and after a level it is the management that adds value and not only the technical knowhow. Put in your best foot forward, extend your help to all and trust in yourself, life may be full of challenges but still it is a celebration, so cheers to life.



**Capt Rajesh Nair** is from the 75th Course, OTA, and was commissioned into 14 Maratha Light Infantry. Post Army service, he has worked in the field of administration for more than a decade, having worked with companies like Wipro, Mahindra Automobile, Tata Communications and Credence Global Solutions.

## Please provide your invaluable opinion/feedback on this Interview, by clicking/tapping <u>HERE</u> - Editor

## **Technological Takeover**





# ForceNetPreneurs

In this series we plan to showcase a few entrepreneur members of Forces Network who have achieved a reasonable degree of success in their business ventures. The aim being to celebrate their success as also to learn from them with a view to motivating more amongst our community to take up entrepreneurship as a full time vocation. Finally - we do need job creators in greater numbers than job seekers.

#### IN INTERACTION WITH UDAY K SHRIWAS

**Sqn Ldr (Dr) Rahul Rai** is a Radiologist and an Ex-Air Force Doctor. He has done his MBBS from King George's Medical College, Lucknow, post which he joined Indian Air Force as a Short Service Officer. After completion of his commission he did his DMRD (Diploma in Medical Radiodiagnosis) from AFMC Pune. He is proficient in all ultrasounds that includes abdominal, obstetrics (2D, 3D, 4D, Doppler & foetal echo), neck, chest, scrotum transvaginal, transrectal, transcranial & Musculo-skeletal along with doppler studies. He has good experience in patient management, hospital administration and human resource management.



Uday: Tell us something about your background prior to joining the Armed Forces, and your subsequent Forces career. What are the Top 5 Learning from the armed forces Career?

**Rahul:** My journey in armed forces started with my first posting at Air Force Station Bareilly, wherein I got the opportunity to be groomed as an Officer under the guidance of 3-4 senior Medical Officers in the Station Medical Centre. Close vicinity with other branch officers like ground duty, technical duty and pilots helped me to understand the armed forces culture holistically and taught me the importance of teamwork & work distribution.

In contrast to the very studious and competitive civilian medical environment, the life in defence taught me to focus upon building up complete personality rather than focussing only on core competence. Developing & balancing all the aspects of personality like discipline, time management, physical fitness, behavioural flexibility, social bonding, leading men & situational awareness helped me have edge on all fronts of work & life. The resilience, never say die attitude & continue progressing are core principles that got engraved during in defence.

#### Uday: What was the impetus for you to leave the uniformed service?

**Rahul:** Leaving the uniformed service, especially when I had the option to continue as a permanent officer, was a difficult but carefully weighed decision. I was raised in joint family with uncle, aunties & cousins staying together in one house. Over period of time all my cousins moved out of station due to either marriage or jobs leaving only elders in the house.



When I went home during my visit to Delhi for my interview for permanent commission I saw all elders sick & my own father struggling with depression. All this was around the Diwali festival which used to be the time of so much fun & activity when I was young. This changed me from deep inside & I decided then & there that come what may I will stay with my family so that everybody can be taken care of.

I strongly believe that a person should maintain balance in all aspects of life and so I wanted to be equally available for my profession and family. Being a Doctor, I was confident of settling anywhere comfortably.

## Uday: Please tell us about your entrepreneurial venture, what was the vision behind starting your venture, and thereafter expanding it?

**Rahul:** I started my civil career by pursuing jobs in different medical and radiology centres. I worked in reputed hospitals like St Stephens and Guru Tegh Bahadur. I also worked as a visiting Radiologist in few private medical centres near my home. Initially I was happy with a simple laid-back life that was providing a handsome salary. But repeated frictions between the employee and the employer made me realize the benefits of being the entrepreneur. With the spark to choose the best option even if it was tough and uncertain, I resigned from the job and trailblazed my Entrepreneurial journey.

I am a Radiologist; in simple terms I am a photographer & structural analyst of internal structures of our body. Unlike any other specialist Doctor, my branch needs different machines to do internal imaging like X-ray, ultrasound, CT scan & MRI. These machines along with their infrastructure & licensing, etc, cost a significant amount up to 10 crores and more depending upon what all machines one plans.

I do not belong to a business family, so how could I have the confidence to open my own setup? It is interesting & imperative for learning to know how I reached, settled with & executed this plan. Nothing comes easily on a platter and obviously I couldn't start my expedition blindfolded. My first step was my research which included meeting people from diverse fields and backgrounds like marketing guys of different machine companies, bankers for loans, investors for partnerships, real estate people for places & seniors in my field for guidance. This continued for whole one year after which I could exactly gauge the details regarding setting up of highly technical machines like MRI & CT scan, their different models & costing, loan formalities, location of the centre, licensing issues & technical team required. This helped me to decide the level of initial investment that I was going to make.

During this period of one year, I had to do many small stints of jobs at different places for supporting my finances, enhance my speed and expertise in medical reporting and learn more and more. This further helped me in my networking. Wherever I found good, committed and competent people, related to my field, I made a point to connect with them & save their contact numbers. This helped me in forming my initial team.



In April 2015, I started my venture as an Imaging Centre with Ultrasound & X – Ray machines. To cover up the cost of my rented place, I had to increase the range of tests that I could offer to the patients. For this, I collaborated with Pathologists & Cardiologists and supplemented my centre with the facilities of Pathology Lab and Cardiac tests like ECG, TMT & Echo.

Apart from networking and understanding the market doldrums, the foremost important thing was to have faith in my core competence and leadership skills. For this I didn't go for any motivational speeches but weighed myself in actual war zone. I worked extra hours in the government and private centres and handled their management tasks. I took feedback from patients, colleagues, and my employers. I worked on my soft skills especially in handling patients. All this contributed to my realistic confidence in taking such a big leap.

My venture is now quite successful. I started with a huge loan amount in 2015 and was almost debt-free within the span of 5 years. Presently I am focussing more on strengthening my financial base, before I put forth my plans to expand further. My vision is to expand this centre in terms of modalities of investigations like CT Scan, MRI, etc. I also have a fascination to run my institution for Paraclinical courses. With systematic planning and correct investments, I am sure to materialise all my dreams soon.



My Center



#### Uday: How did you tackle the challenges thrown at you during the pandemic?

**Rahul:** Amidst the early and peak covid times, most of the private medical centres stopped functioning and the government hospitals were overloaded with patients. Even many of my team members left due to covid scare. Moreover, there was a lot of pressure from the family to keep the centre closed and definitely I was worried too. Within the two days when many medical centres were closed, I was constantly getting panic calls from patients and their families. Afterall who will provide them the emergency and essential medical services. So, remembering my Doctor's Pledge, I collected the handful of dedicated core staff and started operating my clinic.

The challenges were huge. I had limited staff. Borders were sealed and both my staff and I had to face commuting problems. We had to take extra precautions with the patients and do extensive cleaning and sanitization. Covid came as a big game changer for me. My reputation amongst the patients and general public became very strong as I was the only centre that was open. Despite of all the risks and extra efforts, I was also giving huge discounts on all my tests and procedures.

#### Uday: What is your team like, and how did you build it?

**Rahul:** As I mentioned earlier, my networking helped me to connect with dedicated and sincere people. The team of staff and employees stand as strong pillars to success. I still cannot afford to be casual here. I make a point to give them good working environment, decent salaries, and holidays. But is this enough? I must manage them well too. So, let me share with you my broad structure of employee management.

I have divided the team in two broad categories. The core team & the support team. The core team comprises of those who are intelligent, dedicated & self-motivated individuals with integrity. I treat them like my family members & remain informal with them. I give them more salary compared to the market rate. I interact with their family attend their formal family functions & help them in whatever way possible in times of crises. This connect and respect automatically increases their level of performance.



At a family function of staff



The support team comprises of other employees and new trainees. With this set of employees, I remain formal and interact as & when required. Although, I personally interview every employee before hiring and do surprise checks. Core team completely manages the support team. This way all my office work runs smoothly and efficiently, without my active involvement. This gives me more time to focus on patients, networking, enhancing my skills and planning ahead.



With Office Staff

### Uday: How have you found your entrepreneurial journey so far? Could you please share the Moments of Happiness and those moments when it was really demanding and you dug deep and faced the situation?

**Rahul:** My overall journey was not rosy at all. Initially, I had made mistakes and boar losses. I was over-ambitious and started partnership in another big diagnostic centre. It had all diagnostic modalities including highly priced CT scan and MRI machines. I used to stand day and night during the machine installations and setting up of the whole premises. There were days that I have worked throughout the night till morning during installation, upgradation & servicing of machines. From marketing & networking to clinical work I was handling everything on my own as I was the only doctor amongst the partners. Along with my invested money, I worked without any salary continuously for 3.5 years.

As soon as our centre started earning good profits differences between the partners started coming up. After many arguments, controversies, and disagreements, I realized that to have peaceful & comfortable life I should leave the set-up despite of incurring heavy financial loss. The blessing in disguise was that I had earned outstanding experience, wonderful networking, respect in the community of doctors and medical staff and most importantly satiety of my over-ambitious tendencies. Immediately after my walk-out from that partnership, I got many lucrative offers from great investors and doctors, as everyone had seen my clinical competency, administrative & networking skills, dedication & integrity. But then, I decided to work with poise, comfort and focus on my own diagnostic centre first.



## Uday: There must have been great lessons during this tremendous entrepreneurial journey. Can you share a few from your experience?

Rahul: There have been many learnings out of which the main few are:

- There are no shortcuts to hardwork.
- Friends, investors and others are keenly observing you. Everyone wants profits without significant risks and no one will bet on a crippled horse.
- Planning, execution with discipline & networking are imperative.
- Don't try to eat the elephant in one go. Have bigger picture in mind. Chop it down into smaller goals and work on deadlines. Reassess, reschedule & realign.
- Learn from failures. They bring along bigger opportunities to grow.
- Compromising with principles and ethics may be required in early stages but not forgetting them & realigning along with them as early as possible gives a great peace & positivity along with respect from peers, employees & society.
- The employees who form your team are strong pillar of success. Respect and manage them well.
- One of most important thing that I learned is that soft skills are as important as core competence, if not in starting it then surely in growing it. If we consider a business as a tree then its growth will not only matter on the strong core competence as stem but also on the expanse of its roots i.e. soft skills. It creates connect with people that gives the individual and hence the business a positive social image which attracts people, they themselves want to get associated with the business either as part of the team or as clients. They will do the publicity of the business wherever they will interact.



With Young Smiling Client



#### Uday: Tell us about your family and the support they have provided?

**Rahul:** My family has been my biggest support throughout. My father willingly gave me papers of his hard-earned property for my bank loans. My mother supported with her encouraging words, even in times of my losses. My wife (Ex Air Force Officer) contributed all her saved money and PPF. She also took complete responsibility of my 3 yr old daughter and ageing parents. Undergoing transition from Military to Corporate herself, she opted for holding the fort at home instead of shining her corporate career. She kept motivating me to take risks without looking back. She herself kept studying her favourite subject ie Psychology and is now a freelance Clinical Psychologist and NLP Trainer. She has an office and practices in our Diagnostic Centre.

#### Uday: Do you have any other hobbies or interests, which you pursue passionately? And how?

**Rahul:** My hobby is to watch movies and enjoy family gatherings. I take a lot of holidays to spend time with my family. I also believe in investing more time and efforts in health and exercise. No matter how much I am stressed, I go for my regular walks, eat healthy, enjoy with my family, and sleep peacefully.

The biggest secret of my stability is meditation. I have a habit of reading philosophical and religious books and meditate regularly. As a family, both my wife and I try to inculcate the same in my daughter too. I even take out time to attend 10 days Vipassana sessions and visit ashrams of well-known spiritual gurus. I aspire to reach a stage of economic independence so that I can work for social cause rather than for personal gains.



Family Time



**Capt Uday K Shriwas** was commissioned into the Corps of Signals, and served in various theaters during his service for five years, including in a newly raised RR Battalion. Thereafter he has worked with many renowned Companies, like Kingfisher Airlines, IFB Home Appliances, JK Cement, and Yes Bank Ltd. He enjoys working in the field of Marketing, Business Development, Strategy. He also has keen interest in the field of Personal Branding.He is presently working as Regional Head -Honour First (Defence Vertical) IDFC FIRST Bank

Please provide your invaluable opinion/feedback on this Interview, by clicking/tapping <u>HERE</u> - Editor



# **Moment In Time**

## We have started with a Photography section "**Moment in Time**" to provide an outlet for creative side of our esteemed members. The rules for submission are as under:-

- 1.Forces Network members, spouses and their wards can submit images for publication.
- 2. No Nudity or Porn.
- 3.No mention of Mil establishments or unit identity or tac numbers or tail numbers.
- 4. It's a photography section so no images of various get togethers and social functions will be published.
- 5. The longer side of image should be 2048 pixels.
- 6. Maximum 5 images will be published every month. The images must be submitted by 20th of every month.
- 7. Mention your Instagram ID.
- 8. While submitting the following details be submitted along with the suitable Title:-
- a. Aperture
- b. Shutter speed
- c. ISO
- d. Camera used
- e. Lens
- f. Focal length.
- g. In case of a mobile click, the same may please be mentioned.

## All Photos may please be sent to forcesnetworkz@gmail.com by 20th of every month.



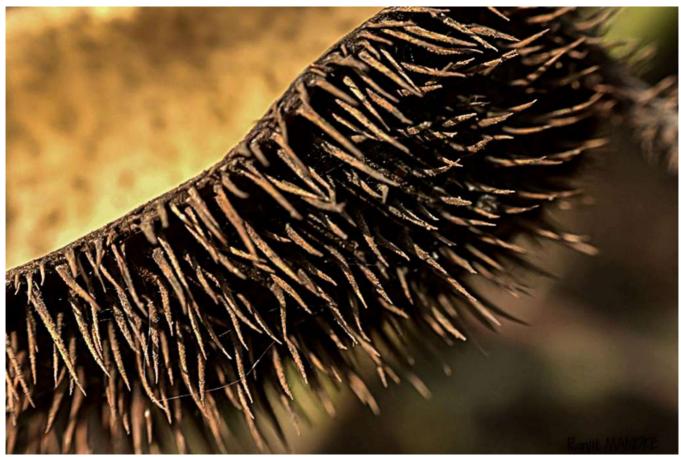
For my newborns -

Aperture - f/5.6; Shutter Speed - 1/200; ISO - 2000; Camera - Nikon D500; Lens - Nikon 200-400 By Maj Ranjit Mandke





Title: Marmot of Pangong Tso Aperture - f/8; Shutter Speed - 1/200; ISO - 200; Camera - Nikon D 850; Lens - Nikon 24-120 By Col Jeetender Sharma



Title: In a macro world Aperture - f/6.3; Shutter Speed - 1/200; ISO - 200; Camera - Canon 500D; Lens - Canon 18-55 with Reynox macro attachment By Maj Ranjit Mandke







Title: Cherrapunji Kid Aperture - f/4; Shutter Speed - 1/200 ISO - 200; Camera - Nikon D850 Lens - Nikon 24-120 **By Col Jeetender Sharma**  Title: Peace Aperture - f/8; Shutter Speed - 1/200 ISO - 200; Camera - Nikon D850 Lens - Nikon 24-70 By Col Jeetender Sharma

Information technology and business are becoming inextricably interwoven. I don't think anybody can talk meaningfully about one without the talking about the other.

(Bill Gates)



# Tech Corner

## Solar Power: An Insight - Part I

### BY RAJESH NAIR

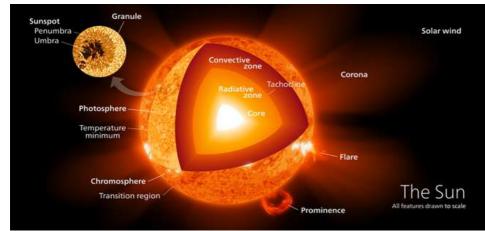
(This is going to be a two article series on the subject

This month we will understand about Sun and Solar energy. How do Solar Cells work. Some of the industry availability.



#### SUN

Sun is a star which is at the center of the solar system. It is the closest star to earth and is a nearly perfect ball of hot plasma, heated to incandescence by nuclear fusion reactions in its core, radiating the energy mainly light, ultraviolet and infrared radiation. The Sun's radius is about 695,000 kilometers, or 109 times that of Earth. Its mass is about 330,000 times that of Earth, comprising about 99.86% of the total mass of the Solar System. Roughly three-quarters of the Sun's mass consists of hydrogen 73% the rest is mostly helium 25%, with much smaller quantities of heavier elements, including oxygen, carbon, neon, and iron. It formed approximately 4.6 billion years ago. Every second, the Sun's core fuses about 600 million tons of hydrogen into helium, and in the process converts 4 million tons of matter into energy.





In 15 minutes, the sun radiates as much energy as people use in all forms in an entire year



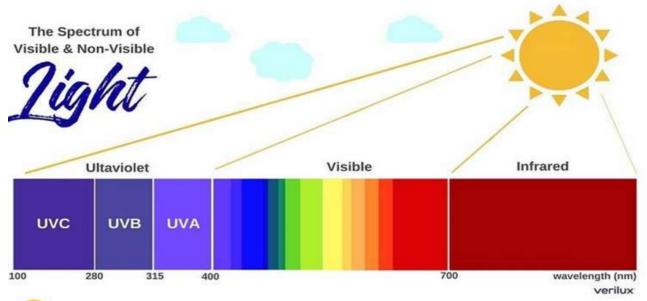
Sun radiates light and heat also known as Solar Energy, which makes it possible for life to exist on earth. Plants need sunlight to grow. Animals, including humans, need plants for food and the oxygen they produce. Without heat from the sun, Earth would freeze. There would be no winds, ocean currents, or clouds to transport water.

In many ancient civilizations, the sun plays a special role, The Indian, Egyptian, Greek, Persians and Roman civilisations developed solar religions. All of these groups had in common a well-developed urban civilization. In all of them the imagery of the sun as the ruler of both the upper and the lower worlds that he majestically visits on his daily round is prominent. Kings ruled by the power of the sun and claimed descent from the sun. Ancient India books refers to kingdom who were the decedents of Sun (Suryavanshi). The English weekday name Sunday "Sun – Day" is similar to as in Indian system Ravivar. "Ravi – var".



SUN God in Japanese, Greek, Indian, Inca, Egypt Culture

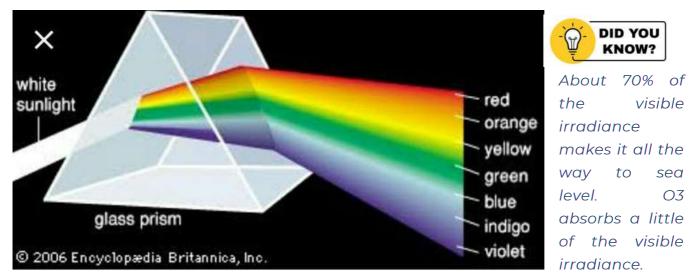
The Sun emits light across the visible spectrum, so its color is white. The Solar radiance per wavelength peaks in the green portion of the spectrum when viewed from space. When the Sun is very low in the sky, atmospheric scattering renders the Sun yellow, red, orange, or magenta, and in rare occasions even green or blue.



**DID YOU KNOW?** Not only is light made up of photons, but all electromagnetic energy is made up of photons. O3 and O2 absorb much of the UV irradiance in the atmosphere.



Sun emits radiation from X-rays to radio waves, but the solar radiation peaks in the visible wavelengths. Solar radiation travels to Earth in the form of light waves, which are also known as the electromagnetic spectrum. Light waves come in different forms. Some light waves have low energy and are longer, others have very high energy and are shorter in length. All light waves are electromagnetic, which means that they contain vibrating electric currents and magnetism. The electromagnetic spectrum includes a wide range of light waves, some that we can't see. Some of the non-visible types of waves are radio waves, microwaves, infrared rays, and X-rays. In the visible spectrum of light, the color of the light depends on the frequency. The order of colors is red, orange, yellow, green, blue, indigo, and violet. A way to remember this is by using the first letter in each color in order to spell out the name **VIBCYOR.** 

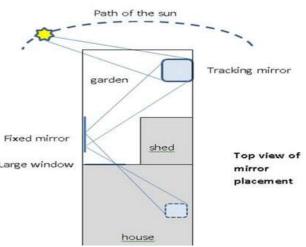


#### Solar Energy:

The world solar means derived from, related to or caused by the sun. Solar energy has existed as long as the sun—about 5 billion years. While people have not been around that long, they have been using solar energy in a variety of ways for couple of thousands years. Early civilizations around the world positioned buildings to face south to gather heat and light. Mirrors were also used to brighten up any space. These mirrors were placed in manner that they light up the house/basement during the day.

They used windows and skylights for the same reason, as well as to allow for air circulation. These are elements of solar architecture. Other aspects include using selective shading and choosing building materials with thermal mass, meaning they store heat, such as stone and concrete. Today, computer programs make applications easier and more precise. The greenhouse is another early solar development. By converting sunlight to heat, greenhouses make it

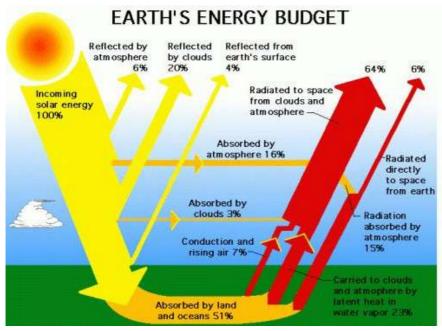
CE, before glass was even invented.



possible to grow plants out of season and in Sun Use for lighting the house in old times climates that may not be suited for them. One of the earliest greenhouses dates to 30



Solar energy is the most abundant of all energy resources and can even be harnessed in cloudy weather. The rate at which solar energy is intercepted by the Earth is about 10,000 times greater than the rate at which humankind consumes energy. Solar technologies can deliver heat, cooling, natural lighting, electricity, and fuels for a host of applications. Solar technologies convert sunlight into electrical energy either through photovoltaic panels or through mirrors that concentrate solar radiation.



A significant fraction of the visible irradiance is scattered by clouds and aerosol. Some is reflected back out into space so that this portion never deposits energy in the Earth system. There are large wavelength bands in which water vapor, CO2, and O3 absorb infrared irradiance.

DID YOU KNOW?

The cost of manufacturing solar panels has plummeted dramatically in the last decade, making them not only affordable but often the cheapest form of electricity. Solar panels have a lifespan of roughly 30 years, and come in variety of shades depending on the type of material used in manufacturing. Solar technologies are broadly characterized as either passive solar or active solar depending on the way they capture, convert and distribute sunlight. Passive solar techniques include orienting a building to the Sun, selecting materials with favorable thermal mass or light dispersing properties, and designing spaces that naturally circulate air. Passive solar technologies reduce the need for alternate resources and are generally considered demand side technologies.

#### Active Solar technologies:

Active solar techniques include the use of photovoltaic modules (also called photovoltaic (PV) panels) and solar thermal collectors (with electrical or mechanical equipment) to convert sunlight into useful outputs. Solar panels are composed of photovoltaic (PV) cells that are responsible for turning light into power. The word "photovoltaic" refers to this duty, meaning to produce a voltage when exposed to radiant energy like light Active solar technologies increase the supply of energy and are considered supply side technologies.



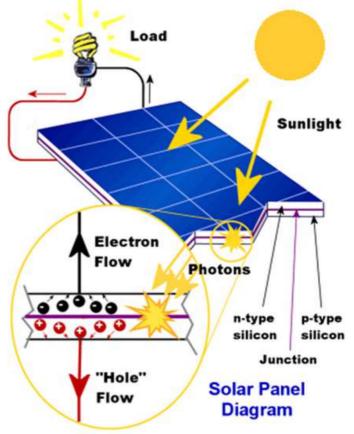
Ranked third in the world in population, the United States uses more electricity than any other country, even the entire European Union of 27 nations



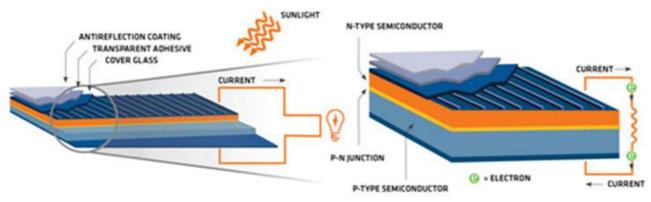
To work, photovoltaic cells need to establish an electric field. Much like a magnetic field, which occurs due to opposite poles, an electric field occurs when opposite charges are separated. Each PV cell consists of two thin sheets of semiconducting material, primarily silicon. Unlike metals which are great conductors of electricity, silicon semiconductors allow just enough electricity to flow through them. Silicon really wants to hold on to its electrons and hence, to get the magnetic field, these silicon sheets are "doped" with impurities to improve their conductivity, allowing them to maintain a charge.

The top layer is doped with phosphorus to create a negative charge (the N layer). The bottom layer is doped with boron to create a positive charge (the P layer). Each boron

atom is "missing" an electron, and would love to get one from wherever it can. These opposite charges create an electric field where electrons can flow. Putting sheets of these two materials together causes electrons from the Ntype material to jump over to the Ptype material. In this electric field created at the N-P junction, electrons are constantly traveling. Due to the nature of the charges, they will flow from the top N layer to the bottom P layer. When sunlight hits a panel, things start to change. The energy from the sunlight knocks electrons out of their normal orbit, and the introduction of this new opposite charge makes the electrons want to change their flow to start at the bottom P layer and end at the top N layer. The electric field at the P-N junction prevents this, but an



external circuit is installed to allow for this movement, which in turn creates electricity.



Cut Slice of a Solar Cell



#### What are the types of solar panels?

In 1881 the first commercial solar panel was created. In the solar panels the PV cells are made from the second most abundant available material on earth "Sand". Sand has to be converted to 99.999% pure silicon crystal to use in solar cells. Sand has to go through complex purification process. After the process you get polycrystalline silicon. They are then converted to very thin silicon wafers. These are the heart of PV cells. Below are the type of PV cells.

**Monocrystalline Silicon Photovoltaic (PV) Cells** - the "purest," made from a single crystal of silicon:-Monocrystalline silicon PV cells are made from silicon wafers that are cut from cylindrical single crystal silicon ingots. The rotund cells have to be cut to form nearly quadratic cells that can be easily integrated in one module. Thus, refined silicon is wasted in the cell production process. Monocrystalline silicon shows predictable and uniform behaviour, but due to the careful



and slow manufacturing processes required, it is also the most expensive type of silicon. The mono-crystalline wafer can be as thin as 120-160 micron. So far, they are the most efficient modules and, with about 25% in 2010, have the largest market share. However, other alternatives are challenging this technology.

**Polycrystalline Silicon Photovoltaic (PV) Cells -** made from multiple fragments of silicon:- Polycrystalline or multi crystalline silicon PV cells are made from cast square ingots, large blocks of molten silicon which are carefully cooled and solidified. They are less expensive to produce than monocrystalline silicon PV cells, but are marginally less efficient, with module conversion efficiencies between 13 and 16.

**Thin Film Photovoltaic (PV) Cells-** a flexible sheet composed of thin layers of photovoltaic material:- The various thin film technologies currently being developed reduce the amount or mass of light absorbing material required in creating a solar cell. This can lead to reduced processing costs from that of bulk materials, but also tends to reduce energy conversion efficiency an average 6 to 12 % module efficiency. Thin film PV cells are constructed by depositing extremely thin layers of photovoltaic semi-conductor materials onto a backing material such as glass, stainless steel or plastic.

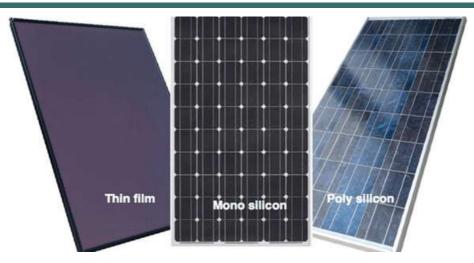






If a solar panel has 20 percent efficiency, that means it's capable of converting 20 percent of the sunshine hitting it, into electricity

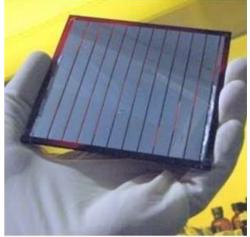




**Concentrator Photovolatics:** Concentrator photovoltaics (CPV) are based on lenses or mirrors which focus direct sun light on solar cells. These cells consist of a small amount of highly efficient, but expensive, PV-material. Presently concentrating intensities vary from a factor of 2 to 100 suns (low concentration) to 1000 suns (high concentration). Commercial module efficiencies lay in the range of 20 to 25 percent.

**Fully organic solar cells:** Organic solar cells are still at an early stage of development. These cells consist of organic hydrocarbon compounds as well as a special electron structure and are able to generate electricity on foils and textiles. At present average cell efficiencies vary between 3 and 5 percent. Minor material consumption and more efficient production technologies lead to a high potential for cost-efficient production. However, there is still need for research activities as life spans are very short. Flexibility is the key characteristic of organic solar cells.





In the next part we will know more on how solar power is used, characteristics and future of Solar.



**Capt Rajesh Nair** is from the 75th Course, OTA, and was commissioned into 14 Maratha Light Infantry. Post Army service, he has worked in the field of administration for more than a decade, having worked with companies like Wipro, Mahindra Automobile, Tata Communications and Credence Global Solutions.

Please provide your invaluable opinion/feedback on this Article, by clicking/tapping <u>HERE</u> - Editor

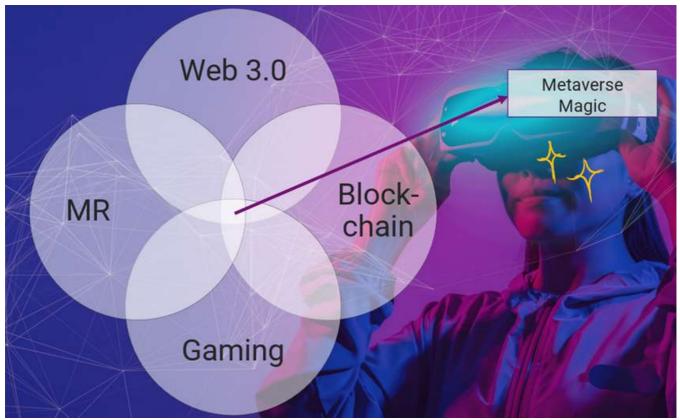


## Forces Network TechTonic Seminar – A Glittering Event Oozing With Rare Knowledge

#### By Iqbal Singh

Forces Network has always been at the forefront of identifying upcoming technology trends on the horizon, demystifying them and educating its community members about the same. We had predicted a second IT boom in early 2019 especially in the areas of cloud computing, cyber security and data analytics. All those who heeded the advice then are reaping the dividends now sitting in top tech companies in plum roles.

As we speak a new revolution is brewing in the cyber world silently but surely. A new combination of potent technologies metaverse, Web 3.0, NFTs, DAOs, crypto currencies,



The metaverse happens at the intersection of Web3/Blockchain, MR and gaming

While these technologies offer exciting possibilities the ensuing disruption is also a reality. Are we prepared to take the most of these technologies? Do we even understand them?

The large tech companies of the world have already made huge investments in these domains and are speeding ahead.



#### What about you? Are you ready to ride the Boom?

You can only ride boom if you prepare for it. You can only prepare for something that you understand.

It was with this background that the TechTonic seminar was organized on 18 Sep 2022 at New Delhi. It was a full day seminar with power packed speakers and a packed house. Participants flew in from all nooks and corner of the country to attend the seminar. There was palpable excitement and energy as people started pouring into the seminar venue.



The seminar began on a sober note by paying homage to the Late Col Sameer Anukul whom we lost to Covid last year. Mrs Babita Anukul his wife was honoured and the Founders acknowledged the contributions of Col Sameer. It was indeed a touching moment.



Mrs Babita Anukul being honoured



The seminar began with the Founder of Forces Network sharing the journey of Forces Network's humble beginnings to the current levels. The next speaker Shubhneet Chawla from Oracle though very young was an expert in blockchain and the metaverse. He introduced the subject with great simplicity and deftness but soon took the audience to greater technical depths. The people in the hall seemed to love it – for they had been exposed to a new world that not so long ago seemed unknown but was now familiar.



Shubhneet Chawla and his fascinating Talk

Then came Vikram Jeet Singh, Associate Partner, Cyber Security, KPMG who dwelt on the topic of Future of Cyber Security in the Era of Web 3.0. Vikram's eloquence and his mastery over the subject made the topic bright and luminous. Moreover he shared the pathway for veterans to becoming a cyber security professional. His talk was very well received.



Vikram Jeet Singh in full flow



Navigating the Web3.0 for success- How Creators & Others can Crush it. This was the topic of the next speaker's talk Akash Agrawal who is the Founder of Metawrks. He gave a very interesting exposition of evolution of Web 3.0 how it was different from the earlier versions. How web 3.0 and NFTs changed the rules of ownership for creators and what were the future use cases. Akash has authored an e-book on NFTs and he was kind to share it freely with all the participants.

Vipul Kukreja, Founder of M2S India is a Head Hunter and hesolves career-related challenges faced by CXOs delivering Talent Management Services to individuals and teams. He had flown in from Mumbai to deliver his Talk on "Getting a Dream Job". The topic generated a lot of interest in the audience and Vipul's narration was gripping and he explained the nuances of how to get a Mafia Offer!



Vipul Kukreja and his amazing Talk

Shailender Kumar, Regional Managing Director - Oracle India, NetSuite - JAPAC spoke on the Advancing Innovation in the DigiTech Era. It was a fascinating Talk, he shared newer opportunities in the upcoming era and his insights were simply superb.



Shailender Kumar delivering his futuristic Talk



Saurabh Dwivedi, Deloitte Partner delivered the talk on HR & Workforce Reimagined. Saurabh is a Fauji kid and his delivery was extremely engaging. Many of his thoughts were paradigm shifting and pivotal. The audience felt highly enriched with his thoughts.



Lunch Time

Post lunch we had Capt Praveen Dahiya – Founder & Managing Director of inQuest Advisories deliver a talk on New Age Risk Management. His talk was quite unique as it was delivered in a manner of storytelling. While it engaged the audience deeply it also informed and educated them.



Capt Praveen Dahiya delivering his engaging Talk



Maj VP Sharma is brilliant Signals officer who transitioned from the world of hi-tech to agriculture. However, he infused it with a lot of tech. His venture Gratitude Farms has already got early funding and is in a stage of hyper growth currently. His success story made many think that there are other options too than simply doing a corporate job.

The last topic was awaited much eagerly by many the subject was Successful Transition to the corporate after age 50. Col Atul Kumar quit the Army at 53 years of age and joined a big 4 Consulting firm. Soon he quit to become a much in demand freelancer. His story gave another perspective to working ie becoming a freelancer or joining the creator economy.

The seminar ended with an hour long mentoring session with a mentor seated on a round table and mentees seated around him. People could ask all that they wanted to ask but didn't know whom to ask. Many participants found this session to be worth its weight in gold.



A mentoring session in progress



The audience in rapt attention





Women power was strongly represented in the seminar

The day ended with lot of bonhomie and loud cheer. It was a day full of learning, unlearning Networking, opening one's eyes to different perspectives. Needless to say that anyone who attended the seminar went back a changed person.



Three Cheers for Forces Network – the Network that Works!



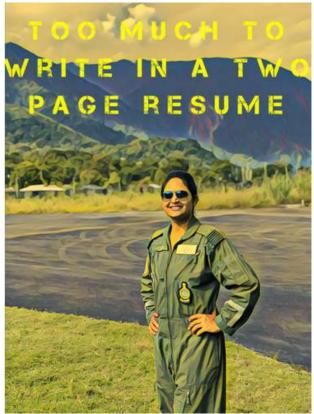
# **Tech Quotient**

The aim of keeping this theme is to celebrate The Spirit Of Forces Network (TSOFN) in particular constant learning. The story may NOT be a low tech to a Java Programmer kind of a story. It simply is real. It involves elevating own skills. We wish to inspire many others by sharing these story and breaking the stereotypes of Fauji not knowing Technology or not learning it.

### **INTO THE CLOUDS**

Hi I am Wg Cdr Jaya Tare, an Indian Airforce pilot with more than 3000 hrs of flying experience and an impeccable safety record. Flying has been like living a dream life over the clouds, super enriching and satisfying. Military flying is a very focused profession and hence most pilots choose their way out to join the civil aviation after their tenure is over.

It's been one year when I took a decision to step out of my cockpit and explore what's the other world is busy doing. Indian Airforce pilots are definitely one of the most skilled individuals on earth but believe me this experience does not fit into any skill if one day you decide to look out of the cockpit. I am married to a pilot (my course mate) for almost 12 yrs and no one can imagine the chaos at home for a child when both the



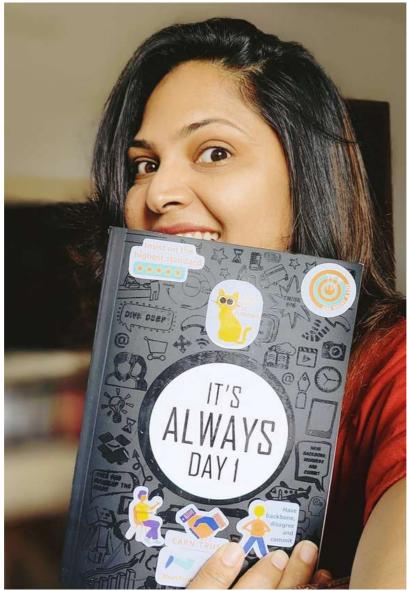
parents are in air. With a 4 yr old daughter this phase of life needed stability, schedule and time from me. This was the same time when Covid stuck the world and the aviation industry hit rock down, conditions propelled us to explore and diversify the house wrt the skills each member has.

It was easier for me to stay in IAF and continue what I was doing all this while but I strongly believe in taking decisions and then work hard to make them right, I believe that life requires a different you in every phase. So, I opened myself to new learnings outside the cockpit after 15 yrs. I enrolled into the pre-release course from IIM and fully utilized these 6 months to upskill myself wrt the present market. I was aware of basic excel but never understood it's potential until I was exposed to the power of advanced Excel, I was aware of the working styles but never knew it's called lean six sigma belts until I did the certifications. My military definition of 'operations' was very different but I dived deeper to identify bottlenecks and remove them all at once. This phase was an interesting one, it awakened the little curious child inside me.



After PRC, I confidently stepped into Amazon and found myself totally aligned by their leadership principles. From making PowerPoints for flying briefings to writing narratives in Amazon, I am awestruck by my typing speed. It's been almost a year and I love carrying my office in my hands (the laptop), I love the flexibility it provides me for work life balance, I feel empowered by this fast-moving technology. While being in the new office, I realized that Veterans carry a different aura altogether and people in corporate look up to it. I am fascinated by the whole new set of new hires who joined us recently and look forward to listen to my stories. It's satisfying when your wisdom and spark lights up the younger generation to do more and transform themselves into their best selves. A true saying fits in *"it doesn't matter where you come from, all that matters is where you reach"*.

My learning journey which started with basic excel and PowerPoint is still continuing and today leading the path towards AWS (Amazon Web services). Eyes always towards the sky AWS is my new-found love interest and I am Super Excited to be in the cloud again :)





## **Reflections on TechTonic Seminar**

Change is inevitable, in fact, it is the only constant of life as they say. So, approaching the milestone of 20 years in uniformed life, I consciously started to contemplate a transition. I had an exciting and satisfying career in the Army. It gave me more than I could give back. Many a time I felt that this is what I was made for. Starting from National Defence Academy, to getting commissioned and commanding a unit, every moment had been enjoyable and satisfying. Life and time in the armed forces had taught me a good deal and now I wished to move on and explore a life beyond. While I sorted out the 'Why' question of transition, what weighed more heavily was the 'How' question. Where do I start? What opportunities existed outside? How can I leverage 20 years of rich experience? Will I survive outside? All these and more bugged me. So like any good military man who had his questions ready,

I started to look for answers. I looked in the immediate circle of friends, seniors, and coursemates and found a few who were making the switch. I realized that all of us were equally at sea! We knew we wanted to transition but we did not know how. Then two of us, came together and started our research online, speaking to friends in and out of the service, veterans in various industries outside, classmates in the corporate world, entrepreneurs, and more. The more we conversed with the environment the more we realized that there were gaps in our knowledge and approach. We understood that it is a misconception that most people are not satisfied with their current jobs. It is more likely that they are apprehensive about making a change. They want to know what to expect, how they can prepare for it, and what they can do to make the transition easier for themselves. We felt that while we were passionate and serious about our transition, there existed no platform, knowledge hub, or information repository that could answer our questions and queries.

Then through a veteran who had transitioned a few months earlier, we came across **Forces Network,** a platform for people like us looking for solutions. I got in touch with Capt Uday (Retd) and discussed our predicament with him. He was more than forthcoming, to say the least. He gave us some serious insights into the outside world and also a lot of positive affirmation for the efforts we were making. Each input from him and the network became food for thought for us and we researched and refined our objectives. He also put us through to Col Iqbal Singh, the force behind the Forces Network and it was smooth running after that. The more we learned about Forces Network and Col Iqbal, the more we came closer to finding our answers.

In August we came to know of the TechTonic Seminar of Forces Network. We immediately subscribed to attending it. Spending more on the airfare than the seminar fee, threatening the airline customer care who offered to refund our money to accommodate some other passengers, and knowing no one in the Forces Network personally, both of us landed in New Delhi. We went on not expecting much. The theme was tech and being non-techs, we were sceptical. However, we decided to attend it, with an open mind.



If that was our mindset, we were in for surprises. From the outset we were blown by the standard, quality, and approach of the speakers, their content, and the Forces Network Team. Starting from the word go it was a treat. The introduction to the metaverse, Primer on Web3, Future of Cyber Security, and New Age Risk Management, opened up our siloed minds to what technology was achieving and was capable of in the future. It made sense not to miss this huge opportunity that tech offered. The speakers conveyed their content lucidly and concisely. Without using jargon, they made a non-tech person like me realize that tech was for all and not the domain of a select few. The session on 'Evolving HR in the Digi Tech Era' was another relevant topic. The walkthrough by Saurabh Dwivedi on how the HR functions were morphing with advancing technologies was engaging. The topics of 'Getting Your Dream Job' and 'Successful Transition after 50' gave deep insights into transitioning.

Col Atul covered the nuts and bolts of transition, options, and careers available. His views on freelancing and consulting opened up us to think beyond getting a job in a corporate. However, the icing on the cake was the Agritech Success story by Maj VP Sharma. When we contemplate transition, we just think of getting another job. What is missed is the scope of entrepreneurship. Maj Sharma's successful agritech business model made a lot of sense. He is giving back to society and nature and still running a sustainable, profit-making business. Kudos to him.

The most engaging, enriching, and relevant aspect of the seminar was the mentoring session. Mentoring is a powerful and useful tool for job transition as it provides a safe space to share information and build skills. The session held up to this promise. The mentors took up all questions- silly, dumb or basic. They removed all our hesitations, inhibitions, and apprehensions. The advice, guidance, and inspiration provided were priceless. Mentors provided solutions answered questions and provided guidance that shall help mentees make decisions about career transition easier. It also helped build confidence and self-esteem, which are important qualities needed in any profession. Only wish we had more time to engage with the mentors.

Overall, I would acknowledge that **we were fortunate** to attend the seminar. We went in expecting nothing and came out wiser and confident in our own abilities. We realized that upgrading, upskilling, and reskilling would be essential for a successful transition. We will have to prepare for it like a mission in the uniform, ticking all boxes, checking and rechecking each. The world is full of opportunities, what matters is how prepared and willing are we to take them on. The seminar gave a direction and impetus to our preparation for transition and we are sure that we shall move well. We would also someday like to come back and contribute to the growing family of Forces Network. Gratitude to Col Iqbal and the Forces Network Team.

Kudos to you and may your tribe grow.



## **Techo in Admin!**

"The number one benefit of information technology is that it empowers people to do what they want to do. It lets people be creative. It lets people be productive. It lets people learn things they didn't think they could learn before, and so in a sense it is all about potential"

- Steve Ballmer

Subject like Radars, astronomy, automobile engineering was of great interest to be even though I was a commerce student. It was the late 90's when I started learning computers and soon mastered it. However, a fluke look at the olive made me fall in love with it. Clearing the written and interview in first attempt just made things easier. I left an A/C room job of Server Administrator (Unix & Win NT) and computer faculty to join the OTA. Opted for Maratha Light Infantry having been motivated by my mentor Col SW Deshpande (2 MARATHA LI / Prahaar). Serving in army had its ups and downs, however later I became unfit for Infantry, being a SS officer, it was easy for me to move out, but the question was **What will I do outside?** The tech that I learnt pre-Army was an obsolete now and I wasn't qualified any better in anything. But as Dr. APJ Abdhul Kalam said "Change is crucial. It brings new thought; new thought leads to innovative actions." I went for the change.

Those days we didn't have visionary veterans like Col IQ or Forces Network. A group which is a blessing for many now. Most of the veterans said that being a GD (General duty) soldier you would fit for Security, Administration and at most HR (the precedence as mentioned). Those were days when mobile was still luxury, smart phones were still not the in thing. Clueless I started searching jobs in security during the great recession period of 2008. After much wait through a veteran reference, I landed a job in Administration in Mumbai. I presumed as a GD soldier this would be the best I would do, and this is future for me.

My first Boss Capt Salim (a Gunner) groomed me well and also provided me lot of opportunities. One such was a transport project. Here I was able to work on excel and data. Not only was the cost saving planned, but also macro based excel sheet was used for running the project to ensure ease to the team. The Project was a success due to the immense cost saving it provided. The project was implemented not only across Wipro locations, but also many other BPO then in country. The finance team was happy with the working that I had done. Excel being used was not a very advanced version of sheet, with basic formulas and some macros, it was probably my first re step towards Tech and Data.



My second opportunity came with Capt Salim giving me the independent charge of a location which featured the last in the map of dozen odd location in the country. Here I got an able deputy who had raw data. I become the process and output for this data. Together with the team we started outshining location by location to reach the Top of chart across India. The key was to get raw data, analyse it and put solution for success in same. With data in hand, we were able to get some first-time certification, clear audits with ease and provide solutions to our internal customers. Suddenly the location and team were shining. Playing with data was becoming fun.

Being novice in Corporate, learning the trivia of administration was very necessary. Quote Field Marshall Sam "Professional knowledge and professional competence are the main attributes of leadership. Unless you know, and the men you command know that you know your job, you will never be a Leader" And so I started learning finer aspects of administration, concentrating on Infrastructure, Facilities, electromechanical, horticulture etc.. Thus getting busy with operational matters. The Flirt with Tech started again when another Gunner came in my work life much later as my Boss (Col Thilakan), who pushed me again into data and management. The boxer was an able opponent who would pin you to the corner till you get a solution which had to be a combination of data, man management and out of box thinking. He and Maj Sadanandan were masters and veterans in data leaving no scope for error. This stint matured me well in handling complex data and matters and analysing complex Admin MIS.

Data was seemingly becoming easy and learning more was now the aim. That's when I heard of ABCT from Forces Network. Was eager to join the next batch only to realise that the batch has been put on hold for now. My wife motivated me to join her for learning Azure from a private class. However due to professional commitments I had to miss it, while she went ahead and completed her course. The regret is always there when I hear her speaking of the Tech application.

Subject of Technology were always of interest and I started writing articles on the new technology in Administration and more. Thanks to Forces Network, a platform was available to do so. Not only I am writing, but also learning. The amount of information the magzine carries as an Editor I keep knowing new things every month.

The story may not be a transformational one of being a Techo to GD to Techo, however it showed me that there are lot of technology which can be learnt for learning and may not be taken as a career path alone. My learning of technology continues.

#### **Capt Rajesh Nair**





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### **ADVERTORIAL**

### **The Hum Fauji Initiatives Money Talk**

# Are you Financially Free?



This question being raised on nation's 75th Independence Day, Azadi's Amrit Mahotsav, is paradoxical. And this short sentence – Are you financially free - about your financial status may still qualify as one of the most misused one in personal financial industry!

#### What exactly is financial freedom?

Is it having a lot of money so that you get counted as a wealthy person? If yes, what if it is locked in physical assets like real estate which will take months to be sold, if at all, long after you really needed the money? Or in stock markets in illiquid stocks, or even liquid stocks which are way below your purchase price and you would not like to sell them?

Simply put, Financial Freedom is having the right amount of money available to you when you actually need it.

Investopedia defines it in as 'having enough savings, investments, and cash on hand to afford the lifestyle you want for yourself and your family.'

If wishes were horses: Like in all other spheres of life, we would have to be reasonable in our expectations to arrive at the financial destination that we want, and perhaps deserve. Please remember that next 10 years will not suddenly spring surprises and bounties that have never happened in the past 10 years unless one undergoes a total life, career and/or capability change.

So how do you know what is your financial freedom level? Starting with reasonable expectations as per your current financial status, write down what kind of life do you want for yourself and your family in times to come? It would include short- and long-term financial achievements like your own and your family members' education, buying a house, buying and changing vehicles over time, affording the goods and necessities of life, having great vacations, charity and such things which are dear to you for having a satisfying life.

Geeks also call it a Financial Plan. If you can meet most of these requirements in the time frame that you visualise they will occur, you can say that you are on the way to be reasonably financially free.

What if the wants and desires are more? That's human behaviour and nothing wrong with it. But we should be able to prioritise them – not in chronological order but in the way their completion really matters to us.



We should be able to achieve at least 75% of our list practically over our life-time.

So, what is the golden rule-set to be followed? It is something we all know already but do not follow because urgent becomes important and important gets relegated out of our consciousness because it is not urgent!

#### Let have that simple 7-point set:-

**1.Prepare for life's uncertainties before anything else:** Life insurance, medical insurance and creating an adequate Emergency corpus are the most important things to do before you even think of anything else financially.

2.Earning and Spending knowledge: Most people know what they earn, but don't know what and how they spend. A simple 5-minute exercise on a chit of paper with a centre-line drawn vertically, monthly earnings on left side and spending heads on right side, will tell you what should you cut down on and what you can save. Always live below your means. Everything else follows from this. You could call it a household budget too if you like complicated words.

**3.Your lifetime financial needs:** As brought out earlier, make your list of what future requirements are important to you, what they cost today, what are they likely to cost when they come up, and how can you invest for each one of them starting from today with what you already have and what you can put in on a regular, generally monthly, basis. This is also called goal-based investing.

4.Key is to monitor it then: A list and a plan created is nothing if not monitored regularly and course-corrections done. **5.Become Debt free:** The only loan you should ideally have is home loan when you need to go in for a house and do not have that kind of money. Any other loan, including a vehicle loan, are bad loans. Avoid and close them early if you have them.

6.Choose your investment vehicles carefully: Never go outside your risk-tolerance limits but also control your behaviour if you have riskier investments. Remember – markets are never wrong, our reaction to them is what creates all the problems.

**7.Start investing now:** The best time to plant a tree was 20 years back; the next best is now!

And if you cannot do all the above yourself for whatever reasons, search for a good financial planner and make him/her your financial doctor and guru.

#### Contact us.

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# **Upcoming Startup**

In this series we plan to showcase a few entrepreneur members of Forces Network who have started their own entrepreneur setup. The aim being to promote and Brand them.

Finally - we do need job creators in greater numbers than job seekers.

#### IN INTERACTION WITH UDAY K SHRIWAS

Started by two young Veterans, this startup is making IOT with roots in AI & ML accessible to enterprises of all sizes

Based at Noida, Tynatech is a full stack IIOT 4.0, AI & ML services PaaS startup.



Tynatech based out of Noida is one of the leading businesses in RFID Solutions which includes Biometric access, RFID Boom barriers, Entry gates, Race Timing System among others. In addition to RFID, it also establishes Computer Labs and IT hardware in various Schools and Colleges. The Company had established its foothold by the RFID and IT HW business. Tynatech further moved on towards becoming an Integrated Solutions provider in the field of Industrial Internet of Things (IIOT 4.0). The Tag Line of company says it all – Embedding Intelligence – which means development of embedded systems having its own mind by the means of Artificial Intelligence & Machine Learning.

When we start a company, are we doing it the right way?

Do we have all the know-how, all the great ideas - the market, the production, the execution, the supply chain, vendor management, customer acquisition tools, the team management - the whole bunch?

Do entrepreneurs actually do that?





Entrepreneurship is always a tightrope walk. It is like walking on thin ropes. At any point in time, an entrepreneur must be able to do it the right way.

#### The Journey of Tynatech

While the passion and focus were seen in the friends since Young Officers days in Ravi & Amit. The friendship continued for years and grown old with both of the officers serving together as part of National Security Guards and later also in various assignments. This led totheir decision to move out in the world and work towards something big and Nobel.

As part of the our organisation in 2020, Ravi & Amit had seen how the big giants had started experimenting with Industrial Internet of Things integrated with Artificial Intelligence & Machine Learning to streamline work across a variety of functions : Water Quality & Efficiency Monitoring, Electricity Efficiency Monitoring, Oil & Gas leakage detection, GPS based tracking of all assets, among others.

However, IOT being a game changer in the integrated systems, Ravi realized that a majority of companies were still struggling to implement and build on emerging tech. It was then that Amit & Ravi started Tynatech in Noida in 2022.

The mission of startup is to democratize Internet of Things with Artificial Intelligence for enterprises of all sizes, globally. They help the client companies to either start or progress on their AI strategy and journey through custom made solutions, with major focus area being Climate Change and SAVE OUR PLANET. This can easily be achieved by implementation of IIOT.



On the face of things, Tynatech is in the business of building future-ready operations, helping enterprises embrace IoT-connectivity or empowering companies with the tools to achieve digital transformation goals. Driving these actions, however, is a bigger dream – to revolutionize how businesses operate in India and support them into becoming leading players at the global marketplace.

#### **Baby Steps**

The startup "TYNATECH INGENIOUS PRIVATE LIMITED" was born in a small village of Noida in a small store cum shop of 200 sq ft with an office table and chair. Initial documentation was held and various nights were spent burning mid night oil to hunt for a way within a vast jungle of multiple businesses viz.. trading, fintech, edtech, franchisee for various big brands and so many others. The duo focused on their own expertise and domain for which they had experience of last twenty years. One fine day, Smart equipment came to mind and they started to work towards further details. And that was the moment when Tynatech saw its light to manufacture something in Embedded Systems with AI.



This was the vision when the mid night oil was being burnt. They saw all good ideas to start with focus in variation. Some day left will look good and the other day right looks better.

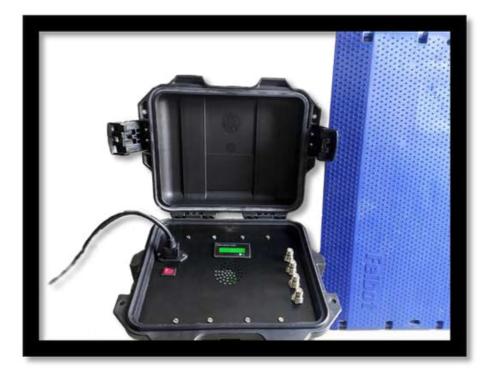
#### THE MAKING OF "INDIGENOUS RACE TIMING SYSTEM"

Judging the initial crunch and requirement of funds for starting a manufacturing unit, the startup ventured into the space of RFID Solutions and Establishment of Computer Labs and IT Hardware. The challenge was well undertaken by both the founders in a mature manner. We kept on sitting in our workshop putting minds together towards creation of some of our product lines. And then we decided to invent our first product i.e. Marathon Race Timing System.



We went to the internet to find details of this system and we could find bigger giants in this field offering solutions to us for \$5000 or more. We thought about it and started to research more. Within a week time, we could think of what needs to be done. We caught hold of few of the marketplaces in India and asked various people for some accessories and spares. We could get some of it within India and rest was imported. After receiving all the spares, we setup the same in adhoc manner and checked its efficacy. No systems can be perfect on the first day and so was ours. It failed drastically. We then started testing and programming the system as per our requirements and VOILA, the eleventh day of our testing saw its accuracy reaching 98%. We celebrated that day in our own Fauzi tradition. Now we moved on to This system can easily track the runners by the use of RFID technology.

Next was more difficult step i.e. packaging everything in a beautiful commercial packing. Various permutations and combinations were researched and tested and we did that too in four days time. And Yes, the system was ready to go to Market. We tested it in an organized PPT practice in one of the units and it proved to be accurate.



#### **EXPANSION AND MANUFACTURING**

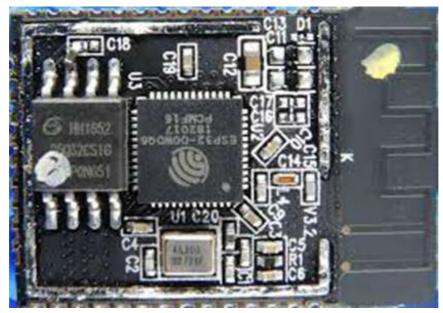
With our first system in hand, we had few trades and we were able to expand ourselves a bit. We started hiring our first employee, who was supposed to be multitasking. We could find and hire. Now, where do we make him sit as we had a small office space. This led to one more shifting of our office to a big 1000 sq ft office space in one of the Business Parks in Noida. We shifted and modified to a lab space where our employees could work and try out various experiments focusing on our main aim.



We kept on providing multiple solutions with RFID systems which included RFID based Boom Barriers, RFID Gates like Metro Stations, RFID attendance systems etc. This led to increase of revenue to our startup. Also we established Computer Lab of 40 computers and networking at a Govt College in Haryana. Few schools also approached us for the labs. Now a days we are in process of establishing a computerized examination centre at Delhi having 300 computers which is a big achievement for Tynatech.

But all set aside, our focus has never changed and it has remained to become IOT leaders in the World. With that in mind, we are constantly evolving and striving to better ourselves, not only as a company but as individuals with a shared vision for success. Our people are our most valuable assets, each imbibing professionalism, enthusiasm and ownership in all that they do. This also reflects onto our workplace culture – work isn't 'work' for us, but a chance to better ourselves every day, be it by utilizing or developing our own skills, collaborating with brilliant teammates to achieve a common goal or simply just doing our own bit to create a sustainable future for the next generation. What we do is simply the extension of what we believe and stand for – our core values. They remain the same today as the day we first began and it is on the foundation of these, that we are poised to grow in the future.

We started putting our minds together for Water Quality & Monitoring Solutions Provider including leakage detection. We worked effortlessly to research and develop the product or what is called as MVP (Minimum Viable Product) in business terms. Yes off course, in this learning of business terms, we forgot Appendix C and learnt words like Pitch Deck, Seeding, Pre Seed, Series A,B,C Rounds, Financial Accounting etc.. We identified the raw products i.e chipsets, microcontrollers and few modules which were required for the development of product. Then the same was ordered ex import and ince we received them, the same was setup in laboratory. There we needed some expert in PCB designing and later soldering etc which we had learnt during our SODE course, but the expertise was not there. We hired few interns for the same and started further development. We could make our first set something like this!!





With this as start point, we developed few more boards and started with the coding also known as Emebedded Systems Firmware programming, We designed firmware, loaded it on the board and made few products which have been mentioned in later paras for better understanding.

#### Some of the products and solutions which we have developed are as follows:-

- Water Quality Monitoring and Distribution System The future of water distribution and supply assurance will depend on extreme data transparency and the real-time monitoring of assets in the field so that water companies can identify leaks, predict maintenance needs, and improve asset performance and utilization. Tynatech's ready-to-deploy Water IIoT and Industry 4.0 solutions enable you to continuously monitor water distribution and sewage networks in real-time, assess environmental performance, plus model and improve future performance across your operations out-of-the-box - in weeks.
- Oil & Gas Monitoring Knowing how remote assets are performing, predicting failure, improving asset utilization, and finding productivity enhancements in sometimes challenging environments, whilst trying to maintain a faultless environmental and safety record, is a challenge for Energy, Oil & Gas companies something our ready-to-deploy Energy IIoT and Industry 4.0 solutions are uniquely placed to help with, fast.
- Supply Chain, Transport and Logistics Supply Chain IIoT and Industry 4.0 solutions give you a real-time source of truth, insights, and all-new capabilities. The right information can make any supply chain run better and improve efficiency, but end-to-end processes can take optimization to a new level altogether. Gathering and processing data in real-time, Tynatech's Supply Chain IIoT and Industry 4.0 solutions will give you complete end-to-end transparency, shorten decision times, and enable you to react rapidly to all the unexpected things that happen on a minute-by-minute basis.
- Agribusiness A growing population demands more produce with higher standards for quality, regardless of the environmental challenges caused by weather, legislation, and climate change; meaning your agribusiness needs to adopt new technologies to gain an edge. We offer a range of ready-to-deploy Agribusiness IIoT and Industry 4.0 solutions, built on our fully-interoperable IOT platform, that can help you. From creating a complete, real-time view of what happening on your land, (including with machinery, water and energy usage), to providing you with insights and allowing you to create alerts and custom automations, our solutions give total operational transparency and enable you to predict issues before they happen.



And	Efficiency Monitoring Console

#### Achievements so Far

- Received Startup India Certification in May 22.
- Received UP Startup Recognition in Jul 22.
- ISO 9001 (Quality Management System) Certification in Aug 22.
- ISO 14001 (Environment Management System) Certification in Sep 22.

#### **Team Behind Tynatech**

The success story of any brand or startup is written by its team members. The family of Tynatech has remained small since beginning and now rising with the blessings of all friends, colleagues and mates. Tynatech remains brainchild of Amit Bajpai and Ravi Kant Rai.

Lt Col Amit Bajpai : Born and Brought up in Kanpur, he haa been a day scholar throughout learning the nuances of Kanpur. After completing college, he casually appeared for exam for CDS and got selected for IMA, Dehradun. Post training, he joined Corps of Signals in year 2000. He served in few elite units like Special Force, Nation Security Guards, Assam Rifles in addition to his tenure as Instructor in Indian Airforce Training College. He finally said bye to Army in 2022 and started their journey of creating Tynatech. Even the tag line i.e. Embedding Intelligence was tossed by him and he is happy that it's the limelight of the day. Being a CEO, he is responsible for overall strategic direction as well as sales & customer relationships at Tynatech.





Lt Col Ravi Kant Rai : Born and brought up in a middle class family, He come from a very religious place, Prayagraj. After completion of his XII from Air Force School Allahabad, He joined National Defence Academy in 98th Course, Later post training he joined Corps of Signals in year 2000. While serving, he had great experiences, where he had setup a video conf call from Baramula to the fwd most Bn HQ using BSNL tele lines in year 2002. Few more projects involved development of Golf Course & Open Air Cinema at MCTE, Mhow. Establishing fool proof communications and wireless telephones to Strike Corps during Exercise. His most satisfying experience has been my last tenure at Kutch, where he improved the communication arrangements by laying of 130km



of Optical Fibre Cables at a place where no communications was present. Also as part of a joint exercise in the same area with BSF, Police, Indian Coats Guards and Indian Army, their communication and video setup had earned accolades from everyone. His desire to do something towards Climate change and Save our planet has seen light of the day and he is confident to take this name as Unicorn with blessings from all. He is good in Embedded Systems, Data Acquisition/AI Algorithms and Energy Efficiency, He is responsible for the technology and is Chief Technology Officer at Tyantech.

#### Few Members of Core Team

Priyam Jain - Head of Engineering

Aman Verma - Head of Research & Development

Neeraj Raghav - Head of Sales

#### **Our Vision Ahead –**

Growing environmental and societal obligations, coupled with safety, productivity and efficiency objectives, is making Industry 4.0 technology a must-have if industrial businesses are to not just survive, but thrive into the future.

We believe that by 2030, there will be a raft of all-in-one data science, AI + IIoT platforms that power the industrial companies of tomorrow. As common and commoditized as ERP, Finance and CRM software; these platforms will be the lifeblood of industry and the way for businesses to seize opportunities and play a responsible role in society, transforming them and us forever.

Tynatech will be a leader among them, offering a suite of ready-to-deploy, affordable solutions and battle-tested expert advice that enables industrial organizations of all shapes and sizes to succeed.



#### Mission –

Build the best technology to connect the physical world and solve problems using the collected data, in order to create a better world.

Tynatech is on a mission to deliver operational and environmental transformation to industrial businesses by implementing next-generation real-time data solutions. Our aim is to provide every industrial business with access to affordable Industry 4.0 technology and the knowledge of how best to use it so that they can succeed with their strategic challenges.

To do this we have integrated our all-in-one data science, AI + IIoT platform. It enables organizations to create and adopt IIoT and Industry 4.0 technology without disrupting what they already do; adding new real-time data and predictive insight capabilities, as well as the means through which they can grow their usage of it and adopt new use cases, completely transforming their operations over time – minimizing risk and delivering meaningful business outcomes along the way.

We are a team of passionate and dedicated young entrepreneurs, committed to serve the customers and do the 'business with a purpose', in case you are interested to join us in our vision and in our journey by investing in the company, we are looking for investments and are open to collaborate with veterans to grow our business.

Reach us at: www.tynatech.in Give us opportunity to serve you. Our service request number is 9727627761. Please mail your valuable suggestions and comments in my personal inbox. I can be reached at ravi@tynatech.in/amit@tynatech.in or +919727627761.



**Capt Uday K Shriwas** was commissioned into the Corps of Signals, and served in various theaters during his service for five years, including in a newly raised RR Battalion. Thereafter he has worked with many renowned Companies, like Kingfisher Airlines, IFB Home Appliances, JK Cement, and Yes Bank Ltd. He enjoys working in the field of Marketing, Business Development, Strategy. He also has keen interest in the field of Personal Branding.He is presently working as Regional Head -Honour First (Defence Vertical) IDFC FIRST Bank

Please provide your invaluable opinion/feedback on this Interview, by clicking/tapping <u>HERE</u> - Editor



# **Book Review**

## India Vs China

#### BY KANTI BAJPAI

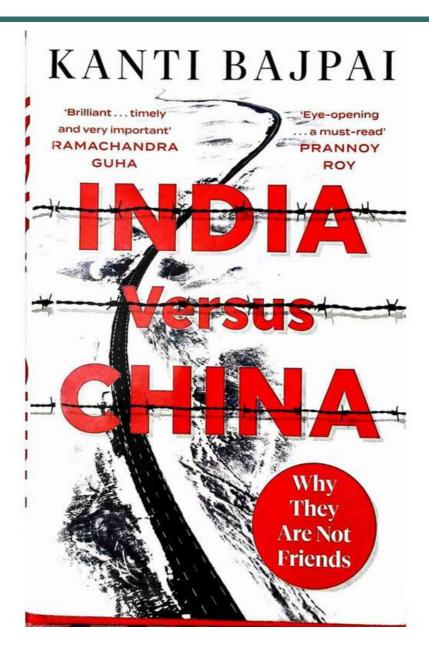
**About The Author:** A renowned scholar of international affairs with a special interest in Indian foreign policy and India-China relations, Kanti Bajpai is the Wilmar Professor of Asian Studies at the Lee Kuan Yew School of Public Policy, National University of Singapore. He has taught at Oxford University, Jawaharlal Nehru University in Delhi, and Maharaja Sayajirao University of Baroda, and has also been headmaster of the Doon School, Dehradun. His most recent publication is the Routledge Handbook of China-India Relations (2020).



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#### Introduction

The book is written on the back drop of India China relations which are culturally rich. This book examines the cultural aspect of Indian & Chinese civilization with Buddhism occurring as common link. India and China people have their own perception about history, cultural exchanges and geographical boundaries. India and China have long standing border dispute from British era and it explained the chronological series of events which led to debacle of 1962. It also mentions the vulnerabilities that Indians were exposed to during and post 1962. Apart from China, the two big powers US and USSR played important role in China's rise where policy of give and take was executed for national interests. It also explains various historical incidents between India, China, US and USSR which had changed course of world politics. Lastly, China's Belt and Road Initiative was discussed along with its security implications on India. There was a broad comparison done between India and China on Economic, Military and Soft Power fronts which clearly shows China has edge over India but also provide a ray of hope for India to catch with China. It contains four chapters and conclusion which sums up of what lies ahead for India and China in future.



#### About the Book in Detail

#### Chapter - 1 Perceptions: From Regard to Disdain

India and China both constitute world's 40% of human race and both are one of the oldest and rich heritage civilizations in the world. India on one hand is traditionally a land of culturally diverse religions, caste, languages and was exploited by Persians, Mughals, Europeans (Portuguese, French) and British. On the other hand, China is also part of Qing Dynasty which never fully came under any foreign invasion. Japan have invaded many parts of China which brought poverty, hunger in China. China looked to India culturally as a result of spread of Buddhism. Buddhism is a common link that connects India and China. Hundreds of Chinese Monks & pilgrims came to India to venerate & learn. China & World had learned a lot from India but sadly Indians were exploited and even got the tag of people living under slavery with no self-respect. Countries around the world had used these teachings for their own good and India were left behind in dismay due to invasions. British interventions in China (Opium War) led to Chinese resentment & disdain towards India & Indians.

#### CHAPTER - 2 Perimeters: From Cooperation to Conflict

1842 Treaty between Tibet and Ladakh (which also has assent of Emperor of China). China will never agree to any pact which is not in their favor, they just disregard by saying that boundary is legacy of imperial rule. China had sort their boundary disputes with other countries except India by recognizing McMahon Line.

In 1950, El Salvador sought to move UN resolution against China's actions in Tibet, India refused to go along and even tried to stop the move. Also, US sought Indian assistance in arming Tibetan resistance but Delhi refused. Delhi & Beijing have deep differences over defined boundaries. Britishers have intentionally kept border issues unresolved everywhere in the world so that countries in the region must stay in the conflict. There was no territorial dispute stated by Zhou, borders could be stabilized by negotiations. China using its deception strategy at its best to deceive its adversaries. China has expansionist mindset which can be controlled by resistance not by negotiations. Negotiations are helpful with China only when other country is at advantage with China, but China tries its best by not allowing other country to utilize that advantage. Nehru was helpful in the repatriation of Chinese prisoners in Korean War, paving way for China's participation in Bandung Afro Asian Conference in 1955, also helped in establishing informal diplomatic relations with US. United Nations permanent security council seat was offered to India but PM Nehru declined it for China. Zhou was silent despite publication of India's new maps. Sometimes silence (China) is best bet, get enough time to organize and also deceptive.



#### Chapter 3 Partnerships: From Entente to Rivalry to Cold War

Complex relationship between countries like US, Russia, China and India changed dynamically. In 1969, China & USSR fought a brief but fierce war. US sanctioned \$ 4 billion loans to China through World Bank and US needed support of China in resolution against Saddam in 1990, China remained abstained from voting. China & US worked under give and take policy and thereby safeguarding their national interests. Indians don't want to do anything but want everything.

Despite unauthorized Chinese copying of Russian arms, Moscow continues to pursue alliance like relationship, selling S - 400 missile systems. Hundreds of Chinese officers were trained in Russia. Both of them were in agreement on global issues and cast joint veto at UN Level. I feel Russia & China are hand in glove. China knows how to make calculated moves & extract best out of its opponents. But Indians are very poor in their diplomatic moves.

#### Chapter 4 Power: From Parity to Asymmetry

A Comparison has been done between India & China regarding Economic, Military, Soft Power areas where China had out maneuvered India in every aspect. China had worked on its people on every aspect whether bringing out millions of Chinese people out of poverty, making China a manufacturing hub of world, making world class infrastructure but at the cost of freedom, free speech of people. Mountain Warfare is key difference between India & China where India has upper hand over China. China's economy is five times India's, but its comprehensive national power may be seven times India's. That may be the truer gap between the two countries.

#### Conclusion Looking Ahead: Perceptions, Perimeters, Partnerships and Power

#### Summary

Chinese politics is so far removed from public scrutiny that all kinds of views exist about future of China. China longstanding problem of corruption, excessive debt and unprofitable state enterprises are rooted in party officials' power to meddle in economic decisions without public supervision.



China is ambitious, arrogant, they won't be sharing power with anyone until someone fights China with character. After pandemic, Chinese economy has taken a hit but what is brutal for them is the reputation where world is now suspicious of China and the only thing that is holding China is Chinese money which is floating around the world on the name of BRI but that bubble is also in making and will ruin Chinese economy under debt. China wants to control everything and don't like if anyone from world questions them. We are in era globalization and social media are dependent on each other, if there would be no transparency and people would be suppressed then one day revolt will be there and China's downfall is imminent and will fall apart under its own weight and disintegrate like Russia. China always fears from public scrutiny and want to make their own. Chinese model of world order which is free from compliance and regulations that world follows. On the other hand, India has to expand economically and must be vocal in world politics about wrong doing done by China. This is only possible if India does not rely on China for its supply lines and develop its market domestically and make its own like - minded groups of security in world order.

#### **Recommendation and Rating**

I think after reading this book, my expectations kept crashing. There are various reasons which didn't create my interest. Firstly, I didn't find any great research done by author Mr. Kanti Bajpai which was very disappointing for me. Secondly, Author's own experiences about China was very limited and does not provide much insight about subject discussed. Thirdly, Author has never given his thoughts on China in detail which could become useful for research purpose.

The only positive out of this book is that this book generated my curiosity to read more about US, USSR, China and India historic relations. After reading all I can recommend that this book is for a beginner who does not know anything about India and China history.

My rating for this book is 2 Stars - Fine but not happy with it.

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**Lt Cdr Varun Kumar Dhand** retd from Indian Navy with 11 years of service in Executive cadre. He had left Indian Navy in 2018. Presently, he is working as Deputy Manager (Security) in State Bank of India, Mumbai. He is passionate of reading books, running marathons, write and debate on different topics of national importance.



# Matrimonials

## **Bride Desired**

A suitable match is sought by Lt Col RV Venkatesh retd for his son, Pravesh. The son was born on 19-02-1994 and is 6 feet tall. His education qualification is Btech ECE from SRM . He is now employed with JP Morgan at Bangalore. Gotham Bharadwaj, star Karthikai, Rasi Rishabha. Father is retired and is working with a Pvt Company as VP the family is presently settled at Mumbai. His mother is a house wife. He has one sister, who is a BA/LLB and working. A girl is desired who is tall, fair, educated and good family background. The girl's family should be Tamil Brahmin family.. I, Wg Cdr Krishnamurti retd can be reached by whatsapp at 8800990343, email rajan\_krishnamurti@yahoo.in

As a young citizen of India, armed with technology and love for my nation, I realize, a small aim is a crime.

— Abdul Kalam —





Capt Uday Shirwas; Capt Rajesh Nair; Lt Cdr Bidisha Pandey

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