FORCENET

E-ZINE | Magazine for military veterans in the corporate

March 2023, Volume V, Issue 03

Navigating Uncertainty

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From the Editor

Dear Readers,

This month we enter the last month of the Indian financial year 2022-23. As always, we are ready with your favourite magazine ForceNet E-Zine on the first day of the month! We are all living in extremely uncertain times and it seems they are here to stay. We all need to learn how to navigate uncertainty. That is the theme we have chosen for this month "**Navigating Uncertainty".**

As military veterans, we know all too well the concept of navigating uncertainty. Whether it's the chaos of a battlefield, the unpredictability of military operations, or the challenges of transitioning back to civilian life, uncertainty is something we have all faced.

But now, as we face a new set of uncertainties brought on by the economic downturns, geopolitical upheavals, pandemic and corporate bankruptcies it's important that we draw on our experiences to help guide us through these uncertain times. With the global economy uncertain and job security elusive, many veterans face the challenge of finding and maintaining stable employment. Before we can lead others in increasing complexity, we as leaders must first learn to lead themselves.

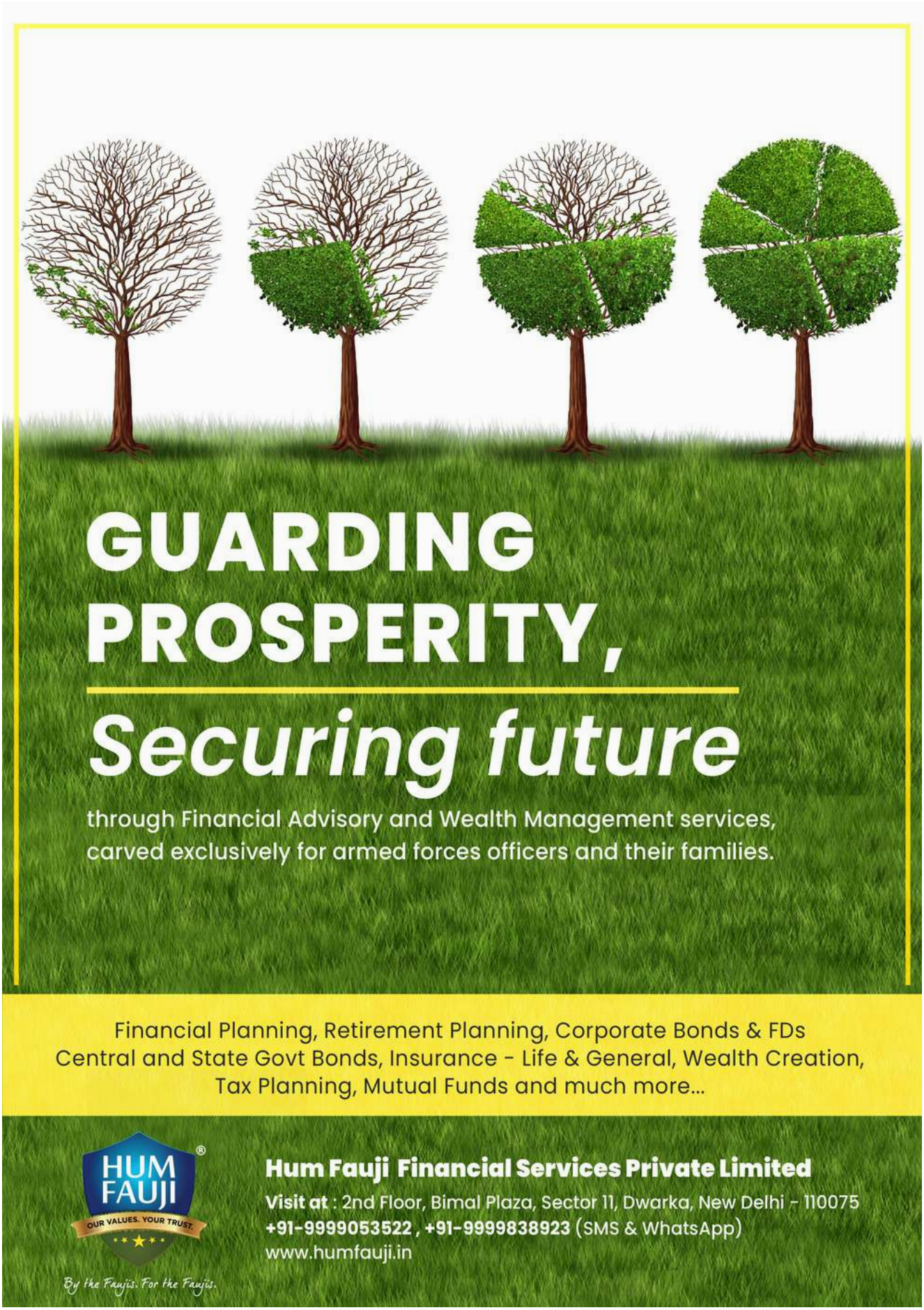
One strategy can be to Embrace the Discomfort of Not Knowing. This shift in mindset can, itself, help ease the discomfort by taking the pressure off of you to have all the answers. Another suggested mindset shift is that since in a complex environment, the context is continually shifting; thus, aiming for perfection is futile. Instead, aim for progress, expect mistakes and recognize that you have the ability to continually course correct as needed.

As veterans, we have had to be adaptable in the face of constantly changing circumstances, and we must apply that same mindset now. We must be willing to change our plans, pivot our strategies, and embrace new technologies, learn new skills, unlearn a few things to ensure that we can continue to thrive in the jobs marketplace and ensure a degree of job security. As veterans, we have faced setbacks, defeats, and tragedies, but we have always found a way to persevere. We must apply that same mindset now. Last but not the least we must never forget the importance of community. As veterans, we know the value of having a support network like the **Forces Network** that we can rely on in times of need. We must continue to lean on each other, offering support and encouragement to our fellow veterans as we navigate these uncertain times together.

Until next time, cheers to Forces Network – **"the Network that works".**

Together With you Always
Yours,

Capt Rajesh Nair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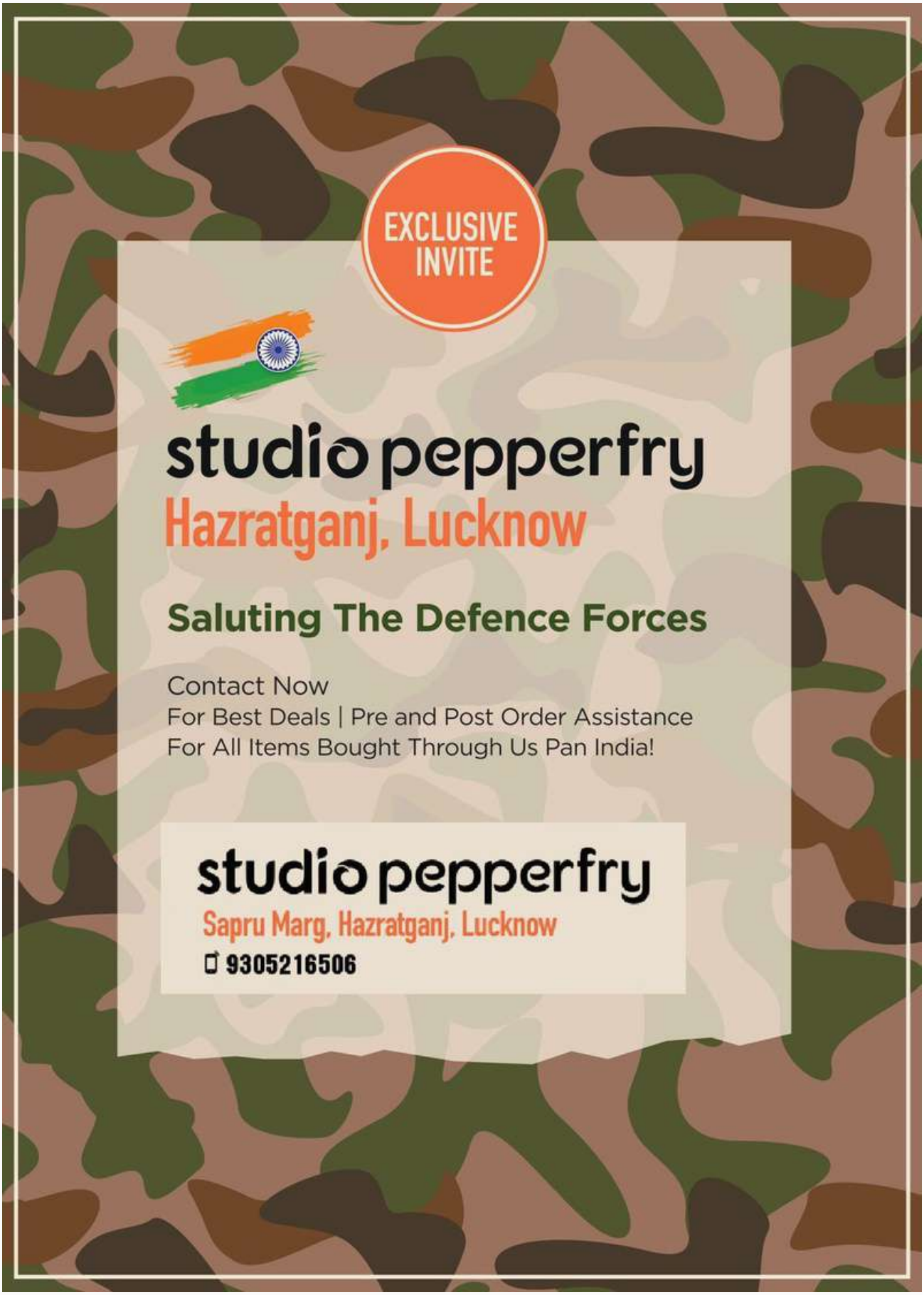
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> The CCIO course was real eye opener on the various connotations in cybercrimes which can affect anyone. It gave tremendous knowledge in various aspects of cybercrimes and how as an individual I can help the society affected by cybercrimes in a better way.The guidance provided by Mr Sreeshankar and Gp Capt P A Naidu was immense during the course
>
> **Wg Cdr K Venugopal (Retd)**

> The ICBIS course has been excellent. Couldn't have asked for more. Murugappan sir as an instructor has been the best instructor I have been fortunate to be associated with. The course content is curated well. The interactive methodology was indeed very useful. Thank you for everything
>
> **Col Sanjay, Indian Army**

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Course on modern technology in security *20 March To 31 March 2023*
This program is designed to impart basic knowledge in the technological development in the field of security.

Risk Management and security survey *01March To 6 March 2023*
This program will impart theoretical and practical knowledge in risk assessment and risk management. The Participants will gain knowledge in conducting of security survey and security design.

Security of Educational Institutions *06 March To 14 March 2023*
Security of educational institutions is a growing problem, which is required to be addressed well.

Security of Hotels *03 April to 11 April 2023*
Security of hotels has become an important aspect for all round business development.

Security of Cargo: *17April -27 April 2023*
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Corporate Vigilance Courses *10 April To 22 April 2023*
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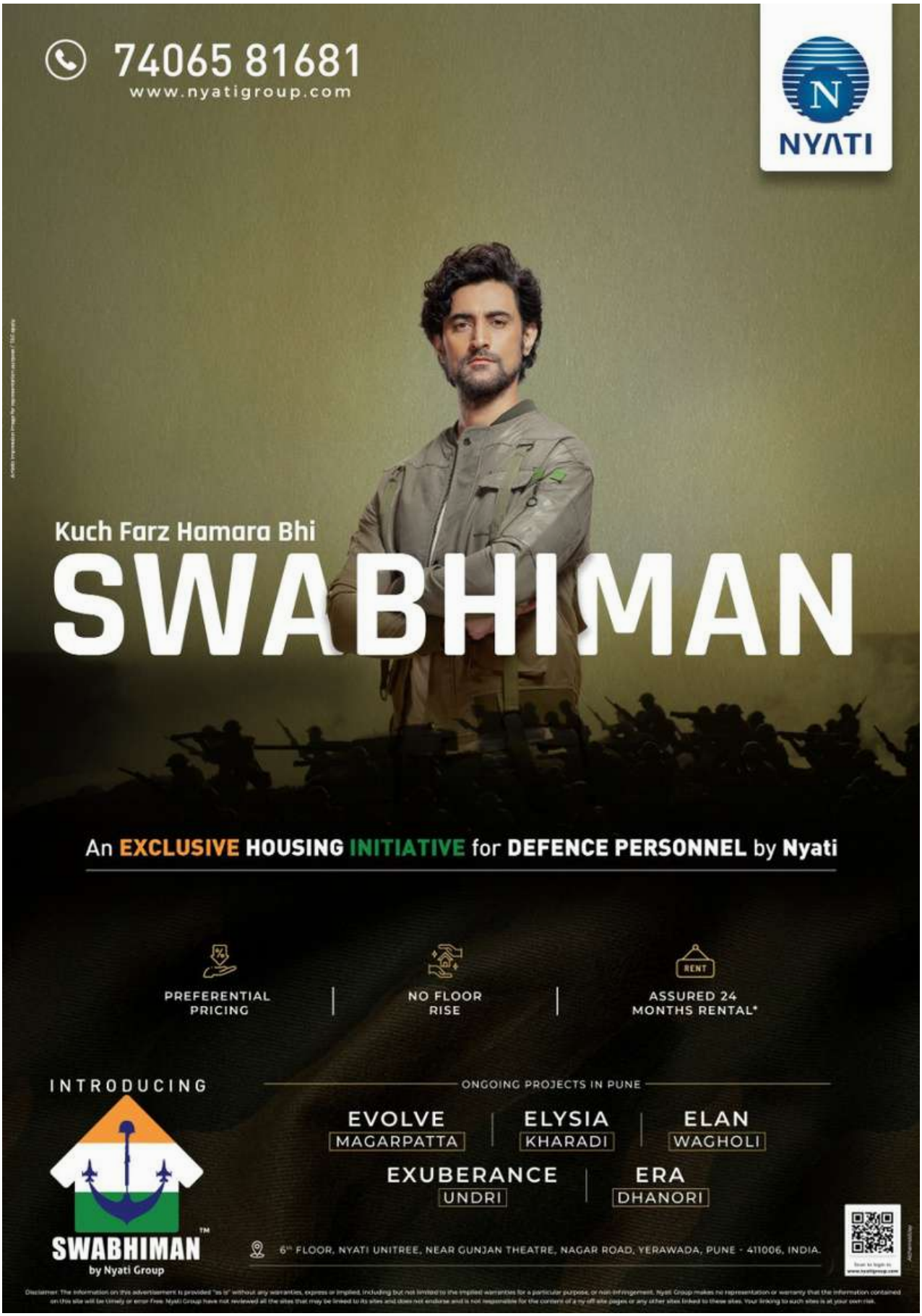
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A NOTE FOR THE READERS

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 IQBAL SINGH

Lt Col Anjan Kumar Mukhopadhyay was commissioned into Corps of Signals in Dec'87. He is a graduate of NDA, 71st Course, post graduation in field of AI ML from IIT Kharagpur in 2003. In the Army he has served in all types of major Signal regiments and with a EW unit in CI Ops. Post his PMR in Oct 2008, he has been working in telecom Managed Services practice area with Alcatel-Lucent and Ericsson. He has the distinction of heading the largest Global Network Operations Centre of Ericsson, managing and automating mobile networks of major telecom operators from across the globe. Currently, he is part of the Pre-Sales team of Ericsson, developing cutting edge solutions for management of 5G networks and Enterprise Private 5G networks.

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

Anjan: At the outset would like to thank Col Iqbal for honouring me with this interview, though personally feel I am nowhere as star-worthy as those who have featured in this magazine earlier!

Coming to the question proper, the highlight of my childhood was the frequent transfers of my father, an Air Force officer. I studied in 9 different schools in all compass directions of India. The upside of these frequent re-location was my developing some sort of resilience to culture shocks associated with changes in schools. This possibly held me in good stead when I stepped out of uniform in late 2008.

In the Orwellian year of 1984, Jan, I joined NDA, transforming overnight from a teenager student to a Cadet. A life changing transformation that was to define thereafter whatever I have done in my life till date.

On commissioning into Corps of Signals in 1987, I had the opportunity in serving in nearly all types of Signal Regiments including in an EW unit at peak of insurgency. In 2001, I was nominated for MTech in IIT Kharagpur, majoring in the field of AI ML.

I rounded off my satisfying Army career as Director Automation in DG Signals, Army Headquarters. In this role I got an unique opportunity to design, plan and execute IT projects for automation of military academies in 3 'friendly' foreign countries in Asia and Africa. These projects were a military diplomacy initiative of the then COAS, Gen JJ Singh. It was a lifetime experience gained to negotiate the bureaucratic labyrinth in South and North block ministries and successfully execute these projects overseas.

These experiences in Army got me 'ready' for the second innings in civil !!

Army days in uniform. :Signals YOs - 1988

IQ: Give us an understanding about your current role and what you are presently engaged in?

Anjan: My career in corporate has been in the area of Mobile Networks Managed Services Operations. It involves end-to-end technical management of mobile networks of Telcos like Airtel, Vodafone. The mobile operators by outsourcing the network management are thereby free to focus all their energies on business offering to mobile customers. This reduces Opex and improves efficiencies of telco operators without them bothering about increasing technological complexities of the networks.

Ericsson is currently a world leader in Managed Services with its globally renowned best practices and state of the art automation tools suite based on AI ML. I am working with Ericsson for 12 years now in many operational leadership roles, viz, Quality & Audit management, Network Operations Centre(NOC) Delivery, automation and transformation. High point in these roles has been my four years as the Head of Global NOCs servicing multiple leading global telcos of different countries across geographies and time zones ranging from APAC to Latin America.

Last year I decided to change gear and moved to Pre-Sales Solutions team within Ericsson. In this team I am responsible to design network services and pricing for new mobile networks being outsourced to Ericsson, mainly 5G and Private 5G networks. This role is thus giving me a ring-side view of the latest networks and automations being architected for global leading telecom operators.

At Ecuador with my young colleagues for on-site customer review meeting – Jan 2019

IQ: How did you prepare yourself for the Military to Corporate transition?
Anjan: My time spent in IIT Kharagpur was indeed transformative. The entrepreneurial enthusiasm of young civilian students sparked an intense desire in me to explore the civilian world.

Looking back, I feel that besides the strong urge to step into civil life, I didn't really 'prepare' in the classical sense. It was basically a leap of faith, the outcome of the following equation:
Insatiable desire to explore other career option + loads of self-confidence + an attitude of gratitude + willingness to unlearn + willingness to learn + lots of luck = Leap of Faith !!!

Was this a correct path? Well at that time there was no Forces Network group to bounce thoughts or seek mentorship. I did exchange notes regularly with Col Iqbal and other course-mates like Cols Sandesh, Niroop, Mitra, Dhingra and Col Asthana who were also determined to make a mark out in civil. So in a sense we were a band of brothers with a common aim. Some of them did make very good preparations like taking up additional certifications and MBA degree.

My postgraduate degree from IIT and the then booming telecom sector did add to my confidence, that getting a job would not be a challenge. Hence I also decided not to take additional certifications like PMP. In hindsight, it was a risky decision. But all's well that ends well.

IQ: What were the challenges faced during your Transition? How did you overcome the challenges?

Anjan: Well, even before the ink in my PMR order of MS branch could dry, there was a Black Swan event. The subprime mortgage crisis led by M/S Lehman Brothers stock crash put the global economy into a massive panic. Rumors of global financial meltdown meant that all IT and Telco companies in India went into a shell and withheld all hirings for many months. I remember those days daily walking up and down the hiring agencies in Delhi, Noida, Gurgaon with CV in hand searching for any opening. My Sigs MS even suggested me to withdraw my PMR and showed me a DO letter written by an officer bitterly regretting his choice of taking PMR. Well I didn't take the bait and held on to my firm belief that step in right direction had been taken.

Luck smiled some months after my PMR, when Col Dhingra, who had already got a job, referred me for the opening of Training Manager in ALUMS, a subsidiary of Alcatel-Lucent which was in joint venture with Reliance Communications in Navi Mumbai. It wasn't the profile or the location that I wanted. But it was in the industry I desired. I took the role and glad that the decision turned out to be correct.

ALUMS being a new and growing organisation, the energy was high and positive with lot new unstructured work. To make my visibility, I volunteered to take on many additional responsibilities and made positive contributions. This was well appreciated by the management resulting in two promotions within a year of joining them. The extensive work and learnings in ALUMS greatly helped when I moved after two years to Ericsson.

IQ: Though you are a Signals officer now working in a telecom company. Do you think the transition to a technology role is much tougher than say a non-tech role? If so, why? How can one mitigate that?

Anjan: Though I was a Signals Officer, managing 2G mobile networks was still new to me. I had to make efforts to learn about the technology and processes. In later years as the technology evolved quickly from 2G to 5G, I had to spend considerable personal time on upgrading my knowledge so as to be an effective team leader. Its true that my basic technical background of Signals did help in assimilating the practical nuances of new technologies faster.

For a non-technical officer entering technical domain, a basic overview of IT and mobile technology, with certifications, could help in entering the tech space. But the ability to move from theoretical to practical implementation of knowledge would obviously be the key to success on the job.

My course-mate, Col Niroop Chandran, an AD officer, is a great example of a typical non-techie joining the telco industry in a techno-managerial role. And for a decade he has been in Ericsson delivering exceptional performances over these years. He would be able to give insights about his path to success.

With this era of No-Code or Low-Code and ChatGPT, the 'need' for technical background is getting blurred. The 'hot' areas of Cloud, Data Analytics and InfoSec don't really require technical background to become experts in these domains. Ability to understand technical aspect and put it into business use is the key - not the background qualification.

71 NDA, Bravo Squadron: Ex Greenhorn (1984)

IQ: While many veterans jumped on to the then booming telecom bandwagon in the period of 2007-2010, in the long run many did not survive for long. You are amongst the so few that have thrived in the industry for nearly a decade and a half. What do you think the others did NOT do right?

Anjan: After Lehman brother scam, another black swan event of the 2G scam in 2009 took its toll with multiple Indian mobile telcos going belly up, vaporising big chunk of job opportunities in telecom sector. This affected many of our veterans for reasons beyond their control. It was just a case of bad luck of being present at a wrong place. As the recent episodes of mass layoffs in tech companies reveal that the businesses just don't care for the contribution, qualifications or ability of an employee before laying him/her off.

Personally, for me I suppose it was just a matter of chance and pure luck that I got new opportunities in time suitable. And I am equally fortunate that the hiring managers found me fit for the roles in their teams, despite my higher age bracket.

IQ: How important is it to understand your own passion and expertise and then to work towards upskilling in that domain so as to have a Better Outing in corporate? How does one identify one's passion?

Anjan: Identifying passion is a difficult but important question. Alignment of passion with interests and skills can certainly increase job satisfaction and lead to better outcomes in their civilian careers.

I guess personal reflection and help of a mentor would be a good approach to identify one's passion. Forces Network is a good source of some high achievers who can be requested for mentoring.

IQ: You have had a long stint in the corporate. To be successful what traits from the military must we give up and what must we imbibe?

Anjan: Military life imbibes in us skills which are also transferable skills, which help us to blend with the corporate culture - if done correctly. Yes, the regimented command & control type of managerial approach may be out of place. But a collaborative and Servant Leadership type of approach would be effective.

Most big companies work on extensive matrix ways of working to deliver products. Given the likely age gap between the veteran and the civilian colleagues a mature, humble approach would be required, shedding aside some of the rigid thought process and some ego.

We must leverage on these skills that the veterans are most sought for:

- Change management skills
- Fact based decision making skills
- Planned execution skills
- Good Communication & presentation skills
- Demonstrating empathy, something we all learn in regimentation
- Resilient and never give up approach to a problem
- Think globally and act locally
- Agile mindset

IQ: What message would you like to give to transitioning military officers who wish to make a career in the technology industry?

Anjan: Some thoughts that immediately come to my mind are:

- There is no sure-shot template or PCK which can be replicated.
- Luck plays an important role. But luck is effective if and only if one has a good social 'network'.
- Quality of your Network would define your starting baseline net-worth.
- Know yourself, know the current business trends and know the technological evolution trend - a diligent skill gap analysis.

- Try to acquire a T-shaped competency. Digitisation, virtualisation of all things physical, softwarization and cloudification, is leading to a flatter tech organisations. This means that mid-level managers would soon be extinct. Hence, a T-shaped competency would enable a veteran to fit faster and better in the organisation's value chain.

Given the dynamic business challenges today, I personally strongly feel that an MBA qualification from good institute would be very essential body armour. The benefit I see is that MBA can make the veteran suitable for multiple types of tech industry, including the burgeoning startups.

IQ: Tell us about your family and the role played by them in your successful Transition?

Anjan: The positive aspect was that my wife, Malavika, was also bitten by the bug to explore the civil world and this made my decision to leave easier. So, without a house to settle down and one child in school and another in pre-school, we took the leap into the known unknown.

The transformation journey has been spectacular for Malavika. With lots of determination, grit and grime she has successfully transitioned from a primary school teacher to now leading PAN India Marketing & Operations teams for premier brand in Retail sector.

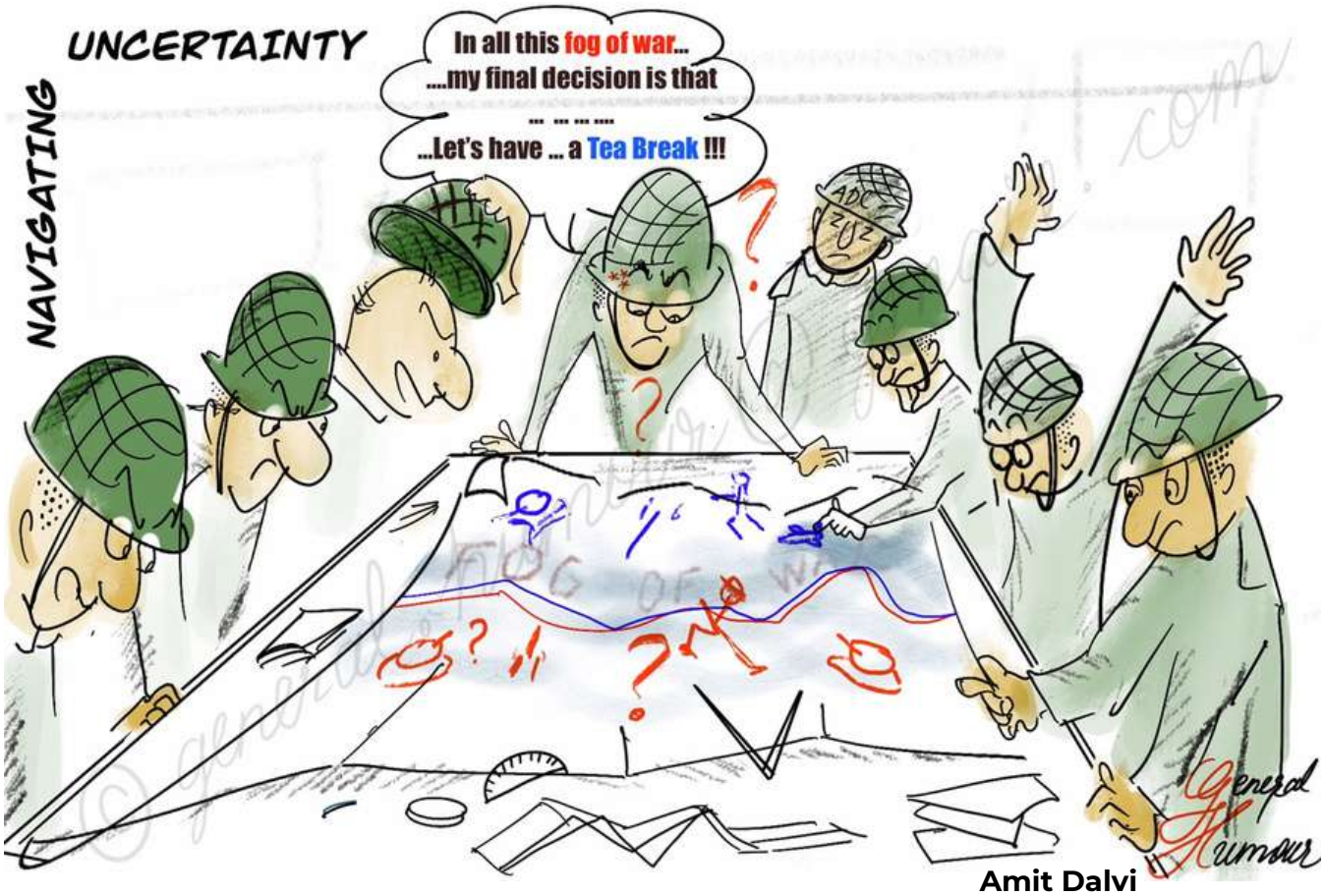
With my wife Malavika, when she achieved her dream target of purchasing from her own earnings her favorite car !!!

My daughter, Anindita, is working in the field of digital marketing as brand strategist. And she is also a budding entrepreneur into designing her own clothing and jewellery based on repurposed textiles and recycled metals. Her web site is https://lazylemonstudio.com/ . My son is in first year of college, aiming to graduate in the field of Journalism and Mass Communications.

In the end, would like to thank Col Iqbal and team for forcing me to go on this biographical self discovery thought process. 😊

Iqbal Singh *is the Founder of Forces Network. Iqbal is an infantry officer who is today working as a senior tech executive in a Big Tech company. Iqbal apart from two technology degrees has a slew of industry certifications spanning across IT service management, Cloud, AI/ML and Project Management. Forces Network is a passion project for Iqbal – one where he is seeking to create impact and make change happen for good. He is a keen technology enthusiast who firmly believes in breaking barriers to learning technology and making it accessible as well as easy. He has mentored thousands of veterans and guided them on to successful corporate careers in his 15 years of running the Forces Network.*

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



Amit Dalvi

Expatriate Interview

In this series we plan to showcase the achievements of the members of Forces Network who have settled abroad and carved a niche for themselves through hard work, grit and determination. The aim is to bring to fore the mechanics of such transitions, and thereby quell the apprehensions of the larger community in the Network. Learning from each other would help us exploit our true potential in any part of the World. And, it could be beneficial for our families too.

IN INTERACTION WITH UDAY SHRIWAS

Sqn Ldr Rajat Kaura post his schooling in Delhi, joined the 72nd course NDA. Commissioned as a helicopter pilot and flew primarily Mi-8 and Mi-35 helicopters, he had a tenure at NDA, did staff course and commanded a missile sqn. He took premature retirement after 15 years of service. Moved to Sydney thereafter and flew for CareFlight as a MedEvac pilot for about 7 years in Sydney. Flew Airbus 120 helicopter as a pilot with Ghodawat Industries in India for about 8 years. Currently with QANTAS as an Instructor.

Uday: Please tell us something about your background prior to joining the IAF, and your subsequent Air Force career?

Rajat: I came for a civilian background. One of my cousins, an Ex-NDA, inspired me to join NDA and become a pilot. I joined the 72nd NDA course and got commissioned as a helicopter pilot in June '88. I mainly flew the Mi-8s and the Mi-35s. I had a tenure as an instructor at NDA and I also did the Staff Course. My last assignment was as the CO of a Missile Unit. I opted for premature retirement after about 15 years. I then moved to Sydney with family.

NDA V Term

Uday: Please give us details about what you are presently engaged in your professional role and where are you based out of?

Rajat: I have been working as a Helicopter Pilot for most of my life after the IAF. I joined QANTAS as an Aviation Instructor in May 2022. Earlier, I was flying for CareFlight, in Australia, as a MedEvac Helicopter Pilot.

QANTAS HQ

Uday: Considering you were a permanent commissioned officer what was the impetus for you to leave the uniformed service so early in your military career?

Rajat: I was looking for good education for my son, as he stood first in the state. Having served at bases like Suratgarh and Pathankot, I could not promise him the best education. Also, as a family, we were looking for a good Civilian lifestyle. It was a difficult and well deliberated family decision to hang the uniform.

Uday: Please tell us as to why did you decide to move out of India? And Why Australia? Also how did all of it happened so fast?

Rajat: Australia is a multi-cultural country that welcomes all cultures across the world. Some of the advantages we saw are good education, employment opportunities, quality of life, security, healthcare and openness. Compared to a few other countries that we were contemplating; Australia ticked ALL the boxes for us. Based on her qualifications, my wife was the principle applicant and then things happened very fast and they accepted our application.

Atop a Hospital in Sydney - BK117

Uday: Would you like to share important learnings as you grew up in the world outside after getting released from the Armed Forces? What are the differences in the work culture in India Vs Australia?

Rajat: My transition was directly from the IAF to corporate world in Sydney. The work culture in Australia is a bit different from the rest of the world. The office hierarchy is much relaxed, and all employees are treated with respect and at par with each other. There is a strong emphasis on the team, rather than a high-ranking individual. Australian work culture is characterized by high union membership numbers and a federally driven, but state controlled, mandatory arbitration and conciliation system.

With a fellow Capt QANTAS

Uday: What are the challenges in immigrating to another country and starting all over again? How did you overcome them? Any advice to others?

As a Flight Cdt - Kiran Cockpit

Rajat: Having lived in India for all my life, I was in my comfort zone there. Moving to Australia meant understand their way of life and their accent – which I understand is one of the most difficult to pick with about a billion slangs. I had to work my way up and get all the necessary Australian qualifications as a pilot. As an advice to those seeking to settle down here, I would suggest that you try to get all the qualifications needed for your job while you are planning to move, so that once you are here, you can get employed faster.

Some of the challenges that I had to face are the cost of living (till I started a decent job), finding suitable employment, language and communication barriers, and as a pilot, learning to fly a new role, a new helicopter, new Geography, getting adjusted to a new work environment and culture.

As for the family, the education system is a lot different – with more emphasis on self-studies, rather than spoon feeding; and the social interaction is also very different. Lack of domestic help meant a lot more responsibilities for the whole family.

Rajat, Vaanya, Niti

Uday: You have been in Flying Career for a Long Time, and also in different Countries, what has been your experience as you lookback to your journey? Any anecdotes, memorable moments, Specific Challenges.. If you could please share?
Rajat: I have flown in 5 countries, spanning 3 continents. It has been fun and challenging to say the least. Flying as a Commercial Helicopter Pilot was obviously more relaxed and had a different set of challenges. In India, I had the opportunity to fly for some Bollywood and regional movies. Was fun interacting with the crew and gave me an insight to the industry.

At a beach near Goa - Airbus120

Uday: Tell us more about your family? What role does Family play in the transition of an Officer?
Rajat: Family plays an extremely vital role in the transition. I could have never thought outside the box and explored other countries. The idea was conceived by Niti. The decision, however, had to be a family decision as it would impact the interests/future of all the family members.

Choosing a place, where you want to spend the rest of your life will hugely depend on the family dynamics, their needs and aspirations. Both Niti and I jointly took the decision to move to Australia. Our son, Vihaan, was in Primary School then and our daughter, Vaanya, was born after the move. Now, Vihaan is married and works as a Software Engineer with Atlassian. Vaanya is aspiring to be a commercial pilot.

Niti, Vaanya, Vihaan, Rajat

Enjoying dinner with friends

Uday: In a busy world, how do you pursue hobbies or interests?

Rajat: Vaanya has been instrumental in getting me back to sketching. Amongst other things, I love to play golf.

With a very busy professional and social life, it is difficult to find time to pursue the hobbies.

ANZAC Day, Sydney

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 HERE - Editor

Women Power

Spouses/Daughters of Defence Officers as well as those who have donned the uniform, have immense potential as individuals. While many of them have already established themselves as successful independent entities, a very large number still has to recognise and exploit their inherent hidden capabilities and worth. In this series we plan to showcase the achievements of such women of the members of Forces Network who have carved a niche for themselves through hard work, grit and determination, so as to provide adequate motivation to the others.

IN INTERACTION WITH UDAY K SHRIWAS

Dr.(CA) Aseema Dake Kulkarni is a Chartered Accountant. She completed her doctoral studies in investment planning with specific emphasis on use of technology for stock market investments. One of her research papers on use of blockchain technology was selected for presentation at the international conference held at IIM Raipur. She is a visiting faculty member at leading B-Schools and conducts workshops and seminars for them and corporates on Finance. Aseema has worked in corporates like Ernst and Young and Goldman Sachs. She has her own venture 'Krishna Professional Coaching' for guiding CA aspirants. An ardent devotee of Lord Krishna, she strongly believes in Karma-Yoga.

Uday: Please tell us about yourself and what you do?

Aseema: Proud to be married to an Army officer, a mother to a naughty eight year old boy who assumes that he is a teenager, a demanding daughter who keeps studying and has to be forced to keep her books and laptop away, a sister whom you can confide in easily. You can add an obedient wife, you can ask Prashant over a drink about the same and am sure he won't deny , sarcasm intended.

My name is CA (Dr.) Aseema Dake Kulkarni. I am a Chartered Accountant , having completed doctoral studies in the area of investment planning with specific emphasis on use of predictive analytics in the Indian stock market. I have also completed my Masters in Computer Management, Diploma in Information System Audit (ICAI) and a certification in IFRS from IACT Global. In the CA exams have been an All India Rank Holder for PE-1 14th Rank all over India and 49th Rank all over India.

In the initial part of my career, I have worked with firms like Ernst and Young and Goldman Sachs. After a short stint in corporate I moved into the field of academics. I have worked with various management institutions like SIBM - Bangalore, Indira Institute of Management, IMED Bharati Vidyapeeth, D Y Patil's Institute of Management and Research and Kirloskar Institute of Advanced Management Studies.

In 2019 , I opted to be a freelancer. Today I teach at various universities and colleges as a visiting faculty member. I also have my own venture 'Krishna Professional Coaching' for students who opt for commerce stream and want to pursue professional courses like Chartered Accountancy. Subjects that I teach are Investment Analysis and Portfolio Management, Mergers and Acquisitions, Financial Instruments and Markets to name a few. I also conduct workshops on topics related to Finance for B-school students as well as corporates.

I have completed my doctoral studies from Bharti Vidyapeeth University and was awarded the Ph.D in 2016. Having completed my Masters in Computer Management but being a Chartered Accountant, the area chosen was to leverage both the fields of Finance and Information Technology and apply the knowledge of computers in the field of Finance. During this time I have published some research papers. One of my research papers on use of blockchain technology was selected for presentation at the international conference held at IIM Raipur. Currently I am learning the programming language Python through an executive program being conducted by IIM Jammu and NSE Academy so that it will help me in my research work. It is in the final stage of project submission.

Uday: What is it that inspired you to embark on the journey of imparting Knowledge in the field of Finance?

Aseema: 'The more you teach , the more you master the concept'. This was something I had experienced in my college days as well. As I was pursuing a professional course like CA , I used to help my friends with accounting and finance related concepts. I used to love explaining any new concept learnt. Even when i took up a corporate job I knew that someday I would like to get into the field of academia.

Academia is an area where you can do multiple things at the same time. This is something which pulled me towards it. In this field one can teach, one can conduct research on the topic of one's interest, get involved in industry collaborations and

Online session on Budget .- Corporate event

projects. You are free to work on multiple areas, trying to solve real world business problems through your research. Finance concepts are complex in nature and when you can break it down and explain it to someone the satisfaction is immense.

Uday: We all have mentors and guides in our professional world and they are a great influence, could you please tell us about them from your life?

Aseema: My first mentor in the area of Finance is my elder brother Mr. Ghoshal Dake. I decided not to pursue medical stream and took a drop from medical college. I was at home unable to decide the further course of action. He was pursuing the course of Company Secretary. That is when he guided me to complete Chartered Accountancy. He was the one who introduced me to the world of Finance. He has done tremendous progress in the field of private equity after studying from the University of Nottingham. I still fall back upon him whenever I am stuck and he guides me in the right direction. Hopefully some day we will have our own financial consultancy, Amen.

I completed my articleship under CA D.G. Kango who guides me even today. Intricacies of audit procedures is something I learnt from him. He introduced me to CA P.H. Mehendale , CA Mrunalini Mehendale (Mrunal mam as we used to fondly call her) and CA Rohit Mehendale. Taxes and audit is something I learnt under their guidance. CA D.R. Barve has a notable mention in my career and he has always guided me. He has seen my career graph rise and has always supported me. Dr.Ajit More was my guide at Bharti Vidyapeeth University. My Ph.D was completed under his guidance. Today also when I publish any research work, I inform him personally. My entire research work was conducted under his guidance. He allowed me to choose the topic use of technology in stock markets which helped me to work in an area of my interest. Today also I continue to do my research in the same area. I am also grateful to all the fellow professors with whom I interact on a regular basis and their guidance, interactions , discussions are of immense value.

Professional achievements

Uday: What's your biggest source(s) of inspiration?

Aseema: My parents are my biggest source of inspiration. My mother Prof.Mrs. Neelima Pathak Dake has her own academy of Spoken English Classes. As a child I used to attend her classes and have witnessed the difference she made in the lives of many. It was an era where many students studied in the regional languages. She taught them the nuances of speaking in English which helped them gain immense confidence. She is a living example and ideal for me for the concept of women empowerment. She also taught me accountancy , because of which I could clear my CA exams. Me and my elder brother call her our very own 'Accountancy Guru' in our house.

My father Dr.Vishwas Dake is an eye surgeon and has taught me that there is no substitute to hard work. He is someone I look up to with great respect and admiration. Something very few people know about me is that I suffered from writer's cramp during my 12th std board exams. Doctors had said that this has no cure. My father stood behind me like a rock and left no stone unturned for any treatment possible. He took me to Dr.Deepak Rokade and Dr. Madhuri Rokade in Pune where I took my treatment for almost eight years.Dr.Sudhir Kothari , Neurologist also supported during this journey. My father used to be there every single day for my treatment even though his day would have been hectic. It was only because of his relentless efforts that I could write for my exams. He taught me 'Tough times don't last , tough people do.'

My support system

Uday: As an Army Wife, the Army life must have had an influence in your choices as you travelled and grew in personal and professional life, could you please tell us more about the Fauji aspect of your life journey?

Aseema: I got married to Capt. Prashant Kulkarni in the year 2010. He had moved out of the Army as a short service commissioned officer when I met him. I have attended army functions ,gatherings and raising days with him but have not been a part of his 'Fauji Life'. He has been a blessing in my life. We met in Bangalore. I used to work for Goldman Sachs and he was working for Sasken. Our offices were located in the same vicinity. We met through a marriage portal and the rest is history.

Our professional backgrounds are completely different. People tend to sometimes ask me even today to re-confirm that I am married to an ex-Army officer. He has always supported me in every venture of mine and stood as a rock during difficult times. It is because of him that I learnt to embrace the moment. I used to plan and take life way too seriously before I met him. It is because of him that I learnt to take challenges and failures in a positive spirit.

He also made me travel to places I never would have even dreamt of. To cite an example , we went on a night trek in Kolad district with friends and climbed the mountain during the night with the moonlight being the only source of light. I cannot imagine being so adventurous if he was not around.

Another most memorable incident is when Prashant took me to visit the worship place in the Army - 'Sarv Dharma Sthal' and I realised that all the worship places for all the religions are at one place. It was something that I will always remember. We still visit the same whenever we get a chance.

Army memories

Prashant is an extremely disciplined and hard working individual who keeps me motivated to aspire greater things in life. He always asks me to keep petty issues at bay and focus on the larger picture. This advice has helped me immensely.

Uday: Would you like to share the details of your CA Coaching Institution you have brought up and how it all started?

Aseema: As they say , the journey of a thousand miles starts with one single step. I always wanted to be a part of the education sector. I started a coaching Institute by the name 'Krishna Professional Coaching' for CA aspirants with one student as a tuition centre. I take pride in mentioning that even today , I have restricted number of students owing to the fact that I do not provide any notes from my end. My teaching methodology is also very different. The student has to

go through the entire study material with me , read everything , practice all the problems with no shortcuts. At the time of enrolment this is clearly told to the student and his/ her parents. Today some of my students who have cleared their exams and are working in MNCs like Credit Suisse , PWC , Ernst and Young. It is such a nice feeling to see the success of your students. With online education being the buzzword in the pandemic , could teach few students pursuing Finance courses overseas. Some students left the journey mid-way as they could not clear their exams. But even they opted for different post graduate courses in Finance and are doing really well in their professional careers. Not clearing one exam is not the end of one's life. Commerce is a stream with many options that one can choose from. It opens the doors to many avenues. Under the banner of Krishna Professional Coaching, have been fortunate to conduct workshops in many finance related areas.

Uday: How has been the journey so far and any stories of great remembrance and significance you wish to share with us?

Aseema: By the grace of God , the journey has been memorable. As they say , enjoy the ride , the destination will arrive soon. Spirituality is an aspect that I have not shared till now. I feel in my entire journey till date it would have not been possible without the Divine Grace.

I worship Lord Krishna with great devotion and strongly believe in Karma Yoga and Bhakti Yoga. During the pandemic I started learning The Bhagvad Geeta which changed the way I look at life. My coaching Institute was also named after Lord Krishna since whatever we do in life is not possible without his intervention. Spending five minutes in the morning hours and seeking his blessings is one of the best ways to begin my day.

Krishna devotion

Uday: Being a Teacher you must be witnessing vast changes in the field of education, what are your thoughts?

Aseema: I mostly teach in the space of higher education to students who pursue professional courses. We use Andragogy as a teaching methodology which means the understanding of the science and practice of adult learning. Higher education has undergone huge changes since I started teaching in 2010. Also the businesses are trying to survive and thrive in a VUCA world (Acronym used for volatility , uncertainty , complexity and ambiguity). Today a set of business ideas may not remain relevant within a short time span due to changing complexities. Artificial intelligence is already changing the business landscape. For their skill sets to remain relevant students have to upgrade themselves on a regular basis.

Students have access to all sorts of lectures on the internet. They can learn from professors in India and abroad sitting in the comfort of their homes. Earlier there used to be a very pre-defined content and exam patterns were also rigid. Today a student can be evaluated on various parameters. More than just case studies , a student gets to work on real life data especially in subjects involving stocks and other financial instruments. A student's progress is tracked through advanced learning management systems which have changed the way course work is delivered. Online proctored exams , open book exams , plagiarism checks , tie - ups with industries for experiential learning , exposure to student exchange programmes are few examples of the way teaching is evolving.

Education space is changing for the better and the new generation would surely benefit from it. On a lighter note , we are even attending seminars to help us formulate assessments which cannot be answered by chatbots like ChatGPT.

Uday: Could you please tell us more about the research you carried out in your field?

Aseema: My research is in the area of stock market investment with the help of technology. Many retail investors do not have access to sophisticated trading algorithms. Weka is a collection of machine learning algorithms for data mining tasks. It contains tools for data preparation, classification, regression, clustering, association rules mining, and visualization. My initial phase of research used this tool on stock market related data to find patterns for future predictions.

Use of various technologies have changed the way the stock market functions. From the outcry mechanism to algorithmic trading , technology has played a very important role in stock market data. My research area involves continuously studying new technologies and assessing their impact on the stock market. Few papers written by me include impact of blockchain technology on the stock market , regulations regarding high frequency trading which takes place in the stock market. Would continue to work in the same area for research in future as well.

Uday: Any other challenges you faced so far on the way to establishing yourself and how you challenged those challenges?

Aseema: Challenges are meant to teach you something. Either we look at them as roadblocks or opportunities to do something better. When faced with a challenge , I have treated it as god's plan for something better for me. When God closes one door he opens another for sure. Spirituality is something that has kept me strong and helped me to cope up with both personal and professional challenges.The biggest challenge was an eight year battle with writer's cramp during my college days. But it also made me more humble and compassionate towards others.

Another notable challenge is to find a work - life fit. I would call myself fortunate to work as a free lancer which helps me take care of the family aspect. But yes , it is challenging to multi task and I sometimes wonder how the week was managed with a nuclear family set-up.

Uday: Live in the present moment and/or Plan for the future? What's your mantra?

Aseema: To be honest , both. Balancing both would be a more pragmatic approach rather than choosing one. The good old story of the grasshopper and the ant teaches us to work in the current situation with an eye on the future.

Award of my PhD Degree

Uday: Lessons learnt as the world transitions through one of the most challenging times?

Aseema: Biggest lesson learnt is having gratitude, a less invited virtue in our lives. Personally I feel that there are a lot of things we take for granted. But it is in the challenging times that we realise the value of each thing that has been gives to us. Life is so precious and we should use ours for a noble cause.

Uday: What advice do you have, especially for family members (wives)from Fauj? Would you like to mention about the Family support you received on this journey?

Aseema: "Two roads diverged in a wood, and I—
I took the one less traveled by,
And that has made all the difference."

A poem by Robert Frost that I still remember. Sometimes we deter to work in unknown terrains as the chances of failure are high. But working in unexplored areas gives immense satisfaction. Not being swayed by others opinion and trusting one's own judgement is the best gift one can give to oneself.

Prashant is the my strongest supporter who does not believe that women are any different when it comes to professional world. It is immense respect about my work from his end that motivates me to do better each day. With out family support this journey would not have been possible. I have missed a lot of family functions , events , festivals for progressing in my professional life. He has supported me in every decision.

Uday: As an aspiring and confident woman in the World of academia, How's your experience? 5 Leadership Qualities that Women bring on The table?

Aseema: By god's grace I work in the area I like. Prashant tells jokingly to his friends that she 'likes to study'. Being an avid reader, my professional life allows me to explore new topics and read about the same on a very regular basis.

I would vouch for sincerity, dedication, integrity, honesty and resilience being in the armour of every professional woman. Also, though I have not surveyed or researched this part, I feel women would score higher on emotional intelligence which would help them in leadership roles.

Uday: Most importantly, What is the best thing you love about your Domain of studies and research ?

Aseema: My research area revolves around technological impacts on the stock market. Today we live in a world where many major decisions are being taken by a bot, the fact that our 'destination is on the right' is told to us by an app and speech recognition is making my study notes. Fin-Tech is something that has changed the way we manage our finances. UPI enabled payments have allowed us to keep our physical wallets in the cupboard. Working in an area that is impacting the way we trade in the stock market is truly one of the best chosen field of work for someone like me who has pursued interdisciplinary studies involving finance and technology both.

Blog that I used to write - https://aseemadk.blogspot.com/2017/

Link to my venture's details - https://krishnaprofessionalcoaching.business.site/?utm_source=gmb&utm_medium=referral

Uday: Tell us more about your family?

Aseema: I am married to Capt Prashant Kulkarni a short service commissioned officer. He had served in the regiment of Artillery. He served the Army for 6 years and then joined the corporate sector after completing the executive program from IIM Bangalore. He also completed his MBA with Human Resources as his specialization from Pune University. As a HR professional he has worked with companies like Sasken, LSI and Deloitte. He is currently working as a HR professional in Nihilent Limited. A man of less words, he believes in action rather than mere talk. My Son is eight years old and ensures that I am kept busy.

Perfect Family Picture

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 HERE - Editor

Author of the Month

MAJ RAJAT CHAKRABORTY

IN INTERACTION WITH UDAY SHRIWAS

Maj Rajat Chakraborty is an alumnus of OTA Chennai and was commissioned into the Indian Army in March 2006 in Corps of Engineers. His core expertise in service as a Sapper officer has been into explosives and demolitions. Post his release, he extended his specialty in the 'Commercial Explosives Technology' domain, introducing multiple generations of 'AutoStem Technology' through technology transfer into India. He also continued his passion on the side – travel and writing.

His first self-published ebook – Uttarakhand Diaries – Unspoken Tales from the Mountains continues to be in the Top 100 Travel Books Category since it was published in Sep 2018. Arunachal Diaries – The Whispers of Far East India is his 6th ebook and has been published both in English and Hindi and covers his unique experiences about Arunachal Pradesh, during his several encounters while and after his service. Rajat was born in Nagpur and currently settled in his home town with his wife, daughter and parents.

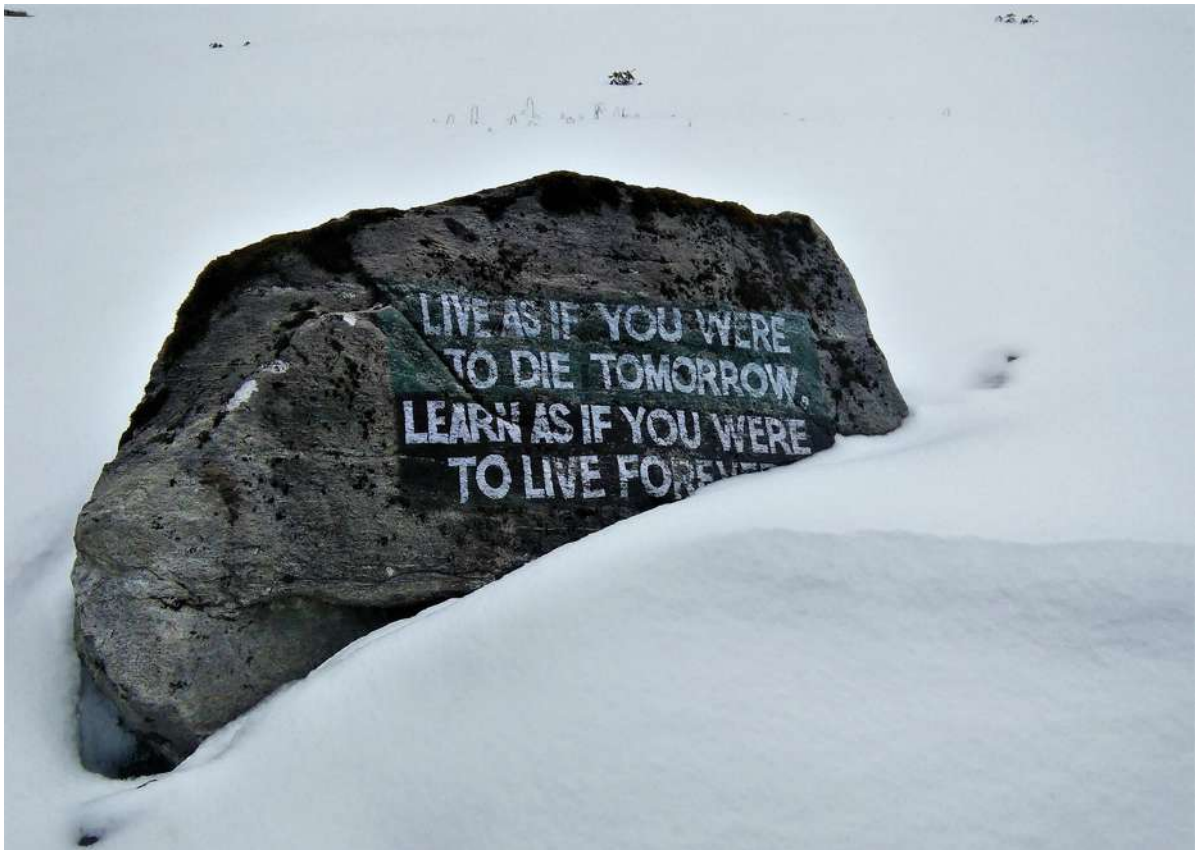
Uday: What inspired you to start writing?

Rajat: I had not been a writer from the start. My journey started with this vague inspiration of writing stories around the thousands of travel photos which otherwise only kept moving from one storage device to another. It is when my uncle (who is an expert photographer) prompted me to document these pictures that I decided to write. Initially, it started with a diary, until I came across blogging in 2012.

The travel blogging industry was very new then, and I decided to take a shot. In Nov 2012, The Trawellblogger was born. I got my first break in 2015 to write for the Holiday IQ Campaign and since then, there was no looking back. In 2020, after the pandemic struck and the leisure travel was stalled, I had to bid my blog a good bye, but I continue to document my stories through my travel ebooks.

Uday: What inspired you to write Arunachal Diaries?

Rajat: The one reason I chose to write about Arunachal Pradesh is that it still remains an underrated destination. As an Armed Forces fraternity, we are fortunate to have served here and such places have huge potential for expanding the tourism industry. It also allows the common people to know and connect with the Armed Forces profession up close and learn about the real-life challenges (and adventures) of our profession.



Life lessons on milestones

Uday: What is a travel memoir and how did you come across this style of writing?

Rajat: A memoir is usually used in the context of history or biography. I used the term memoir here to recollect and write the stories from the pictures I have gathered along my past journeys. In travel memoirs, you use extended narratives of a picture, with detailed expressions and thoughts about a place, people, culture etc.

Travel memoir is a genre in itself in the non-fiction category. In a Fauji way, I would say that it is like the picture perception test, where we used to write a story on a picture shown to us, except that the story is far more detailed. It is like a "live broadcast" through your words. So now that you know the trick, you do not have an excuse to not write.

Uday: How do you gather ideas for writing a book?

Rajat: Keeping a journal helps. The ideas have a habit of coming to your mind when you do not have an option to note them down. Hence, they tend to often slip away with time. While traveling to a place, I take some time to note down my thoughts about the place which I can articulate later on in details. The instinctive or subconscious ideas are powerful and a journal comes handy to note them down as and when they come. The key is, you must make sure you note them right away, so that you register the most authentic and raw ideas on time.

Uday: Is it possible for anyone to write?

Rajat: *"But how could you live and have no story to tell?"* - Fyodor Dostoevsky's White Nights (1848).

This quote is so simple yet so profound. Everyone has a story. It's just that no one is good about how to start. Storytelling like anything else is more about practice than talent. I never started out as the best writer on the first day. The goal was to write and express and not to be the best. I take this too as a journey.

There are no good or bad writers, rather there are ones who write and the ones who don't. What worth is a story if not written at all. It goes to the grave alone. If you can read and write, do yourself a favour; write about yourself. It will help you to create the most authentic version of yourself. Give your authentic self a chance to emerge.

Uday: What are the barriers or blocks you face while writing and how do you cope with them?

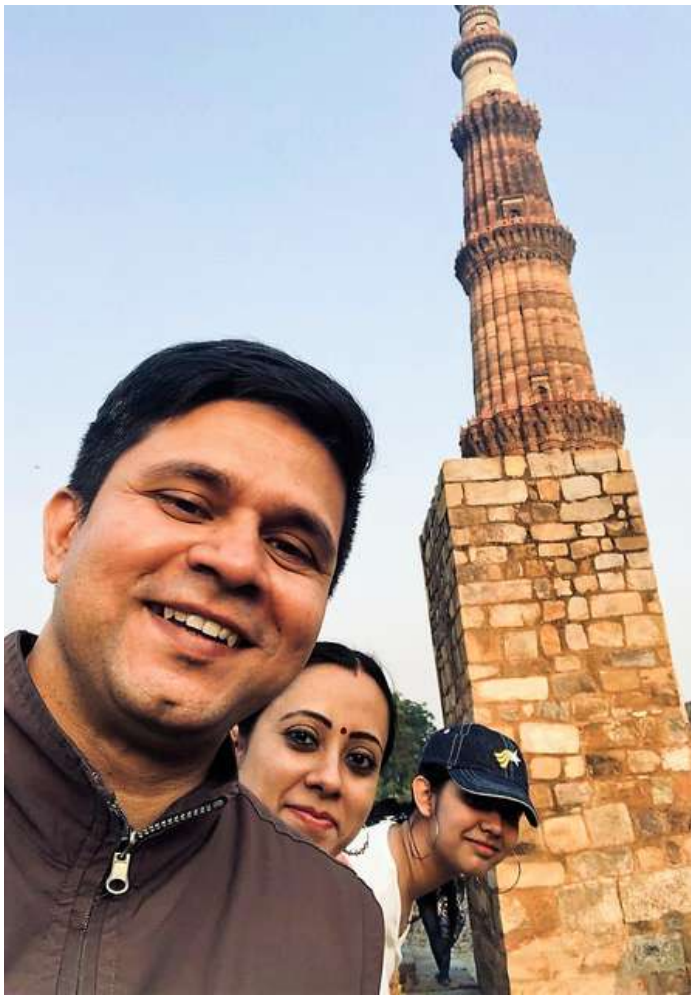
Rajat: Creative writing is all about creating the experience. The reader is literally 'walking' the experience through your words. When they read, they create impressions in their mind on the go. As a writer, developing that skill took time and effort. It is not as much about what you can see in the picture as much it is about what's unseen, that keeps the intrigue alive.

The "writer's block" is another challenge for me and I am sure it is for any other writer. This also leads to procrastination as the 'flow' is disturbed. I usually try to write in the early mornings when the mind is empty. Also, as I said earlier, I keep notes of the ideas that come along the entire day. That gives me a reference point and helps me to restart the flow of thoughts and ideas quickly.

Uday: Have you ever thought of writing in other categories/ genre yet?
Rajat: During the lockdown, I realized that I can work on writing in other domains as well. I have an inclination on topics such as business, entrepreneurship and self-development and would write on the same as well. As a matter of fact, there is already a project in pipeline. Also, I am more comfortable writing in Hindi, one of the reasons I published the Hindi version of Arunachal Diaries as an experiment to see the acceptance.

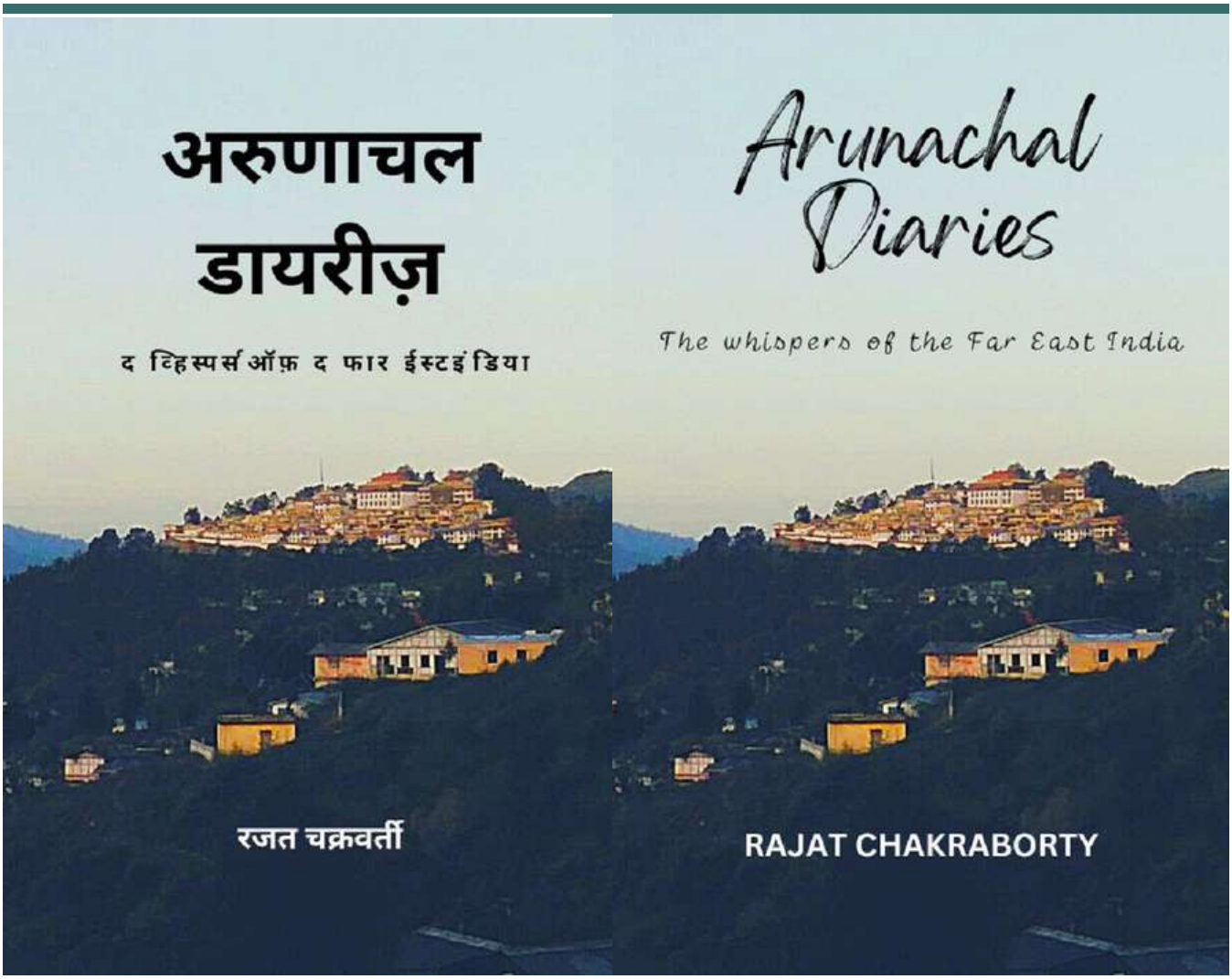
Uday: What is your next writing project?
Rajat: My next project is my book – The Failure Inc. It is a book that deals with all the prejudices and taboos we have around failures in life and how we can have a different perspective about it. As I said, it is a self-development genre.

This project is close to my heart and I intend to write it with deliberation. Although, I have completed writing the first manuscript, I delayed the timelines of the project to gather some real time case studies and references in the book. I will keep the community posted about the release.



Traveling Together

Uday: You chose the unconventional path of self-publishing rather than going with the existing publication houses? Any reasons for that?
Rajat: The publishing industry for new writers is like a maze. It is easy to get lost and I could figure that early on. The Kindle Direct Publishing is a great tool to start and create an early portfolio. It allows to keep yourself open to opportunities and choose the right publishing house rather than fall for anything. Although, I do not keep reservations about the conventional ways, unless, it promises me worth my effort and time.



Book name : Arunachal Diaries: The Whispers of the Far East India (Travel Memoir);
Publishers : Self Publishing;
Available on: Amazon,
Price : Rs. 0/- (Kindle)
Link : https://www.amazon.in/Arunachal-Diaries-Whispers-Travel-Memoir-ebook/dp/B0BT1JZJV1/ref=sr_1_2?crid=1NBH7KX695C1V&keywords=arunachal+diaries&qid=1677343476&sprefix=arunachal+d%2Caps%2C301&sr=8-2

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 Article, by clicking/tapping HERE - 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.

Silhouetter Photography - *Capt Ashwin Pradhan*

Wildlife Photography

By Capt Ashwin Pradhan

Landscape Photography

By Capt Ashwin Pradhan

Landscape Photography

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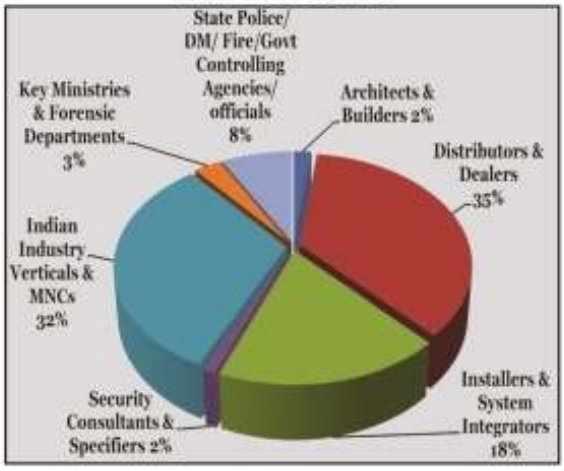

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Tech Corner

Making A Career In Digital Forensics: A New Age Career

BY IQBAL SINGH

Digital Forensics is an exciting new age career

Introduction

With increasing digitization and automation the surface area for attack for cyber criminals has increased exponentially. Cybercrime is on the rise and jobs in digital or computer forensics are in great demand. It is a branch of digital forensic science. Using technology and investigative techniques, digital forensics helps identify, collect, and store evidence from an electronic device. Digital forensics can be used by law enforcement agencies in a court of law or by businesses and individuals to recover lost or damaged data. The goal of computer forensics is to perform a structured investigation and maintain a documented chain of evidence to find out exactly what happened on a computing device and who was responsible for it. It essentially involves data recovery with legal compliance guidelines to make the information admissible in legal proceedings. The terms digital forensics and cyber forensics are often used as synonyms for computer forensics.

Digital forensics starts with the collection of information in a way that maintains its integrity. Investigators then analyze the data or system to determine if it was changed, how it was changed and who made the changes. The use of computer forensics isn't always tied to a crime. The forensic process is also used as part of data recovery processes to gather data from a crashed server, failed drive, reformatted operating system (OS) or other situation where a system has unexpectedly stopped working. Businesses also use computer forensics to track information related to a system or network compromise, which can be used to identify and prosecute cyber attackers. Businesses can also use digital forensic experts and processes to help them with data recovery in the event of a system or network failure caused by a natural or other disaster. Typically they investigate security breaches on a computer system, network, website, or database to find out how they occurred, endeavour to retrieve lost files, and repair damaged data while strengthening the security system to prevent reoccurrence.

Where Do They Work?

Many computer forensic investigators work within the law enforcement industry, whether directly for law enforcement agencies or for private firms hired by agencies to manage digital evidence. It's also possible to work as a forensic analyst for a private company. In this case, you're likely to be tasked with identifying vulnerabilities, investigating breaches, and attempting to retrieve data from damaged or compromised digital storage devices. Some digital forensic investigator jobs require you to be on call to respond to incidents that might not occur during regular business hours. You can also work as a freelancer in this domain. See the profiles of typical freelancers billing in a range from $20- $200 per hour.

Salary: Digital forensic analysts in the US make an average base salary of $74,575, according to Glassdoor, as of December 2022. Job sites ZipRecruiter and CyberSeek report salaries of $73,271 (computer forensic investigator) and $100,000 (cyber crime analyst), respectively.\\

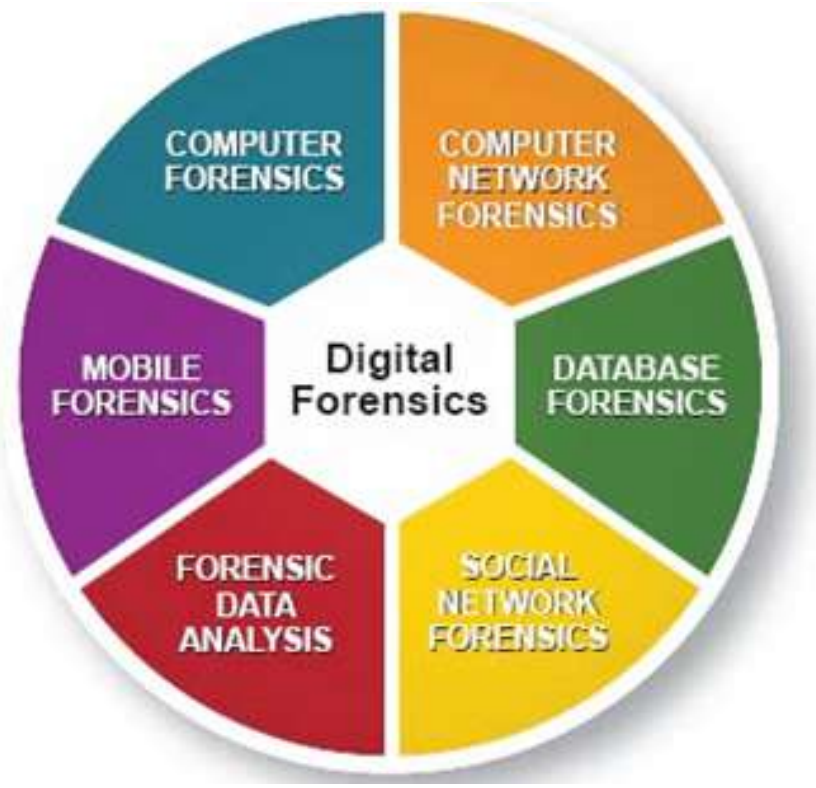
Job Openings: To get a feel of the kind of job openings take a look at indeed website for such roles.

Types of Digital Forensics

There are various types of computer/ digital forensic examinations. Each deals with a specific aspect of information technology. Some of the main types include the following:

- **Database Forensics:** The examination of information contained in databases, both data and related metadata.
- **Email Forensics.** The recovery and analysis of emails and other information contained in email platforms, such as schedules and contacts.

- **Malware Forensics:** Sifting through code to identify possible malicious programs and analyzing their payload. Such programs may include Trojan horses, ransomware or various viruses.
- **Memory Forensics**: Collecting information stored in a computer's random access memory (RAM) and cache.
- **Mobile Forensics:** The examination of mobile devices to retrieve and analyze the information they contain, including contacts, incoming and outgoing text messages, pictures and video files.
- **Network Forensics:** Looking for evidence by monitoring network traffic, using tools such as a firewall or intrusion detection system.



There are Several Types of Digital Forensics

How Does Computer Forensics Work?

Forensic investigators typically follow standard procedures, which vary depending on the context of the forensic investigation, the device being investigated or the information investigators are looking for. In general, these procedures include the following three steps:

- **Data Collection:** Electronically stored information must be collected in a way that maintains its integrity. This often involves physically isolating the device under investigation to ensure it cannot be accidentally contaminated or tampered with. Examiners make a digital copy, also called a forensic image, of the device's storage media, and then they lock the original device in a safe or other secure facility to maintain its pristine condition. The investigation is conducted on the digital copy. In other cases, publicly available information may be used for forensic purposes, such as Facebook posts or public Venmo charges for purchasing illegal products or services displayed on the Vicemo website.

- **Analysis:** Investigators analyze digital copies of storage media in a sterile environment to gather the information for a case. Various tools are used to assist in this process, including Basis Technology's Autopsy for hard drive investigations and the Wireshark network protocol analyzer. A mouse jiggler is useful when examining a computer to keep it from falling asleep and losing volatile memory data that is lost when the computer goes to sleep or loses power.

- **Presentation:** The forensic investigators present their findings in a legal proceeding, where a judge or jury uses them to help determine the result of a lawsuit. In a data recovery situation, forensic investigators present what they were able to recover from a compromised system.

Often, multiple tools are used in computer forensic investigations. A researcher at Kaspersky Lab in Asia created an open source forensics tool for remotely collecting malware evidence without compromising system integrity.

Techniques Used By Forensic Investigators

Investigators use a variety of techniques and proprietary forensic applications to examine the copy they've made of a compromised device. They search hidden folders and unallocated disk space for copies of deleted, encrypted or damaged files. Any evidence found on the digital copy is carefully documented in a finding report and verified with the original device in preparation for legal proceedings that involve discovery, depositions or actual litigation.

Computer forensic investigations use a combination of techniques and expert knowledge. Some common techniques include the following:

- **Reverse steganography**: Steganography is a common tactic used to hide data inside any type of digital file, message or data stream. Computer forensic experts reverse a steganography attempt by analyzing the data hashing that the file in question contains. If a cybercriminal hides important information inside an image or other digital file, it may look the same before and after to the untrained eye, but the underlying hash or string of data that represents the image will change.

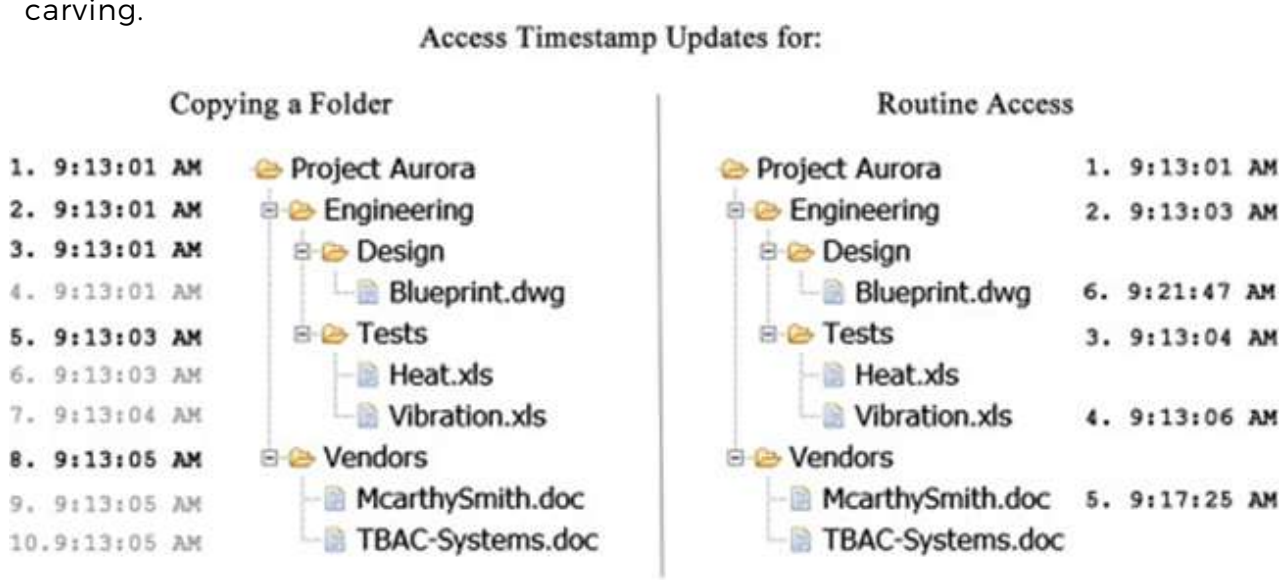
- **Stochastic Forensics:** Here, investigators analyze and reconstruct digital activity without the use of digital artifacts. Artifacts are unintended alterations of data that occur from digital processes. Artifacts include clues related to a digital crime, such as changes to file attributes during data theft. Stochastic forensics is frequently used in data breach investigations where the attacker is thought to be an insider, who might not leave behind digital artifacts.

- **Cross-Drive Analysis:** This technique correlates and cross-references information found on multiple computer drives to search for, analyze and preserve information relevant to an investigation. Events that raise suspicion are compared with

information on other drives to look for similarities and provide context. This is also known as anomaly detection.

- **Live Analysis**: With this technique, a computer is analyzed from within the OS while the computer or device is running, using system tools on the computer. The analysis looks at volatile data, which is often stored in cache or RAM. Many tools used to extract volatile data require the computer in to be in a forensic lab to maintain the legitimacy of a chain of evidence.

- **Deleted File Recovery**: This technique involves searching a computer system and memory for fragments of files that were partially deleted in one place but leave traces elsewhere on the machine. This is sometimes known as file carving or data carving.



An Example of Stochastic Forensics

Book Reference: To know more about computer forensic analytics refer the book Python Forensics: A Workbench for Inventing and Sharing Digital Forensic Technology, by Chet Hosmer. It shows how to use Python and cybersecurity technology to preserve digital evidence.

How Digital Forensics Has Been Used as Evidence?

Digital forensics has been used as evidence by law enforcement agencies and in criminal and civil law since the 1980s. Some high profile cases include the following

- **Google Trade Secret Theft**: Anthony Scott Levandowski, a former executive of both Uber and Google, was charged with 33 counts of trade secret theft in 2019. From 2009 to 2016, Levandowski worked in Google's self-driving car program, where he downloaded thousands of files related to the program from a password-protected corporate server. He departed from Google and created Otto, a self-driving truck company, which Uber bought in 2016, according to The New York Times. Levandowski pleaded guilty to one count of trade secrets theft and was sentenced to 18 months in prison and $851,499 in fines and restitution.

- **Michael Jackson**: Investigators used metadata and medical documents from Michael Jackson's doctor's iPhone that showed the doctor, Conrad Murray, prescribed lethal amounts of medication to Jackson, who died in 2009.

- **Apple Trade Secret Theft:** An engineer named Xiaolang Zhang at Apple's autonomous car division announced his retirement and said he would be moving back to China to take care of his elderly mother. He told his manager he planned to work at an electronic car manufacturer in China, raising suspicion. According to a Federal Bureau of Investigation (FBI) affidavit, Apple's security team reviewed Zhang's activity on the company network and found, in the days prior to his resignation, he downloaded trade secrets from confidential company databases to which he had access. He was indicted by the FBI in 2018.

- **Enron**: In one of the most commonly cited accounting fraud scandals, Enron, a U.S. energy, commodities and services company, falsely reported billions of dollars in revenue before going bankrupt in 2001, causing financial harm to many employees and other people who had invested in the company. Computer forensic analysts examined terabytes of data to understand the complex fraud scheme. The scandal was a significant factor in the passing of the Sarbanes-Oxley Act of 2002, which set new accounting compliance requirements for public companies. The company declared bankruptcy in 2001.

Career Paths in Digital Forensics

Digital forensics has become its own area of scientific expertise, with accompanying coursework and certification. Some examples of cyber forensic career paths include the following:

- **Forensic Engineer**: These professionals deal with the collection stage of the computer forensic process, gathering data and preparing it for analysis. They help determine how a device failed.

- **Forensic Accountant**: This position deals with crimes involving money laundering and other transactions made to cover up illegal activity.

- **Cybersecurity Analyst**: This position deals with analyzing data once it has been collected and drawing insights that can later be used to improve an organization's cybersecurity strategy.

How To Build Digital Forensics Skills

Success in cybersecurity, including digital forensics, often relies on having the right technical and workplace skills for the role. For a career as a computer forensic investigator, consider investing in skills like:

- **Digital Storage Devices:** Understand how data is stored on hard drives and consumer electronic devices, so you're better equipped to retrieve critical or compromised data.
- **Operating Systems:** You'll need to know how to find and retrieve information from Windows, Linux, macOS, Unix, and Android devices.
- **Cryptography:** Often, the data you'll need to retrieve and analyze will be encrypted, so it's critical to understand encryption and decryption methods
- **Communication:** You may be tasked with documenting evidence and writing reports on your findings. In this role, you may have to communicate technical concepts to non-technical audiences, like company executives or juries.
- **Malware Engineering:** You may be tasked with reverse engineering a piece of malware to better understand its functionality and impact.
- **Digital Forensic Software:** Programs like Forensic Toolkit (FTK) contain a collection of forensic tools to help you scan devices for information and crack encryptions.
- **Data Privacy Laws:** Since you'll be working with sometimes sensitive data, you'll need to be familiar with local, federal, and international data protection laws.
- **Problem-Solving:** Rarely is the data you're looking for sitting out for you to find easily. Instead, be prepared to do some sleuthing to solve complex problems.

Relevant Certifications

Earning a relevant cybersecurity certification can validate your skills to recruiters and hiring managers, enhance your resume, and open up new job opportunities. Some commonly-demanded certifications for digital forensics jobs include:

Certifications Give you a Leg Up In Your Job Hunting

- **Certified Computer Examiner (CCE):** The principal certification offered by the ISFCE is the Certified Computer Examiner (CCE). First awarded in 2003, this certification is the result of the ISFCE's desire to increase the level of professionalism and further the field and science of computer forensics.

- **EnCase Certified Examiner (EnCE):** The EnCase™ Certified Examiner (EnCE) program certifies both public and private sector professionals in the use of Opentext™ EnCase™ Forensic. EnCE certification acknowledges that professionals have mastered computer investigation methodology as well as the use of EnCase software during complex computer examinations.Recognized by both the law enforcement and corporate communities as a symbol of in-depth computer forensics knowledge, EnCE certification illustrates that an investigator is a skilled computer examiner.

- **GIAC Certified Forensic Analyst (GCFA):** The GCFA certifies that candidates have the knowledge, skills, and ability to conduct formal incident investigations and handle advanced incident handling scenarios, including internal and external data breach intrusions, advanced persistent threats, anti-forensic techniques used by attackers, and complex digital forensic cases. The GCFA certification focuses on core skills required to collect and analyze data computer systems.

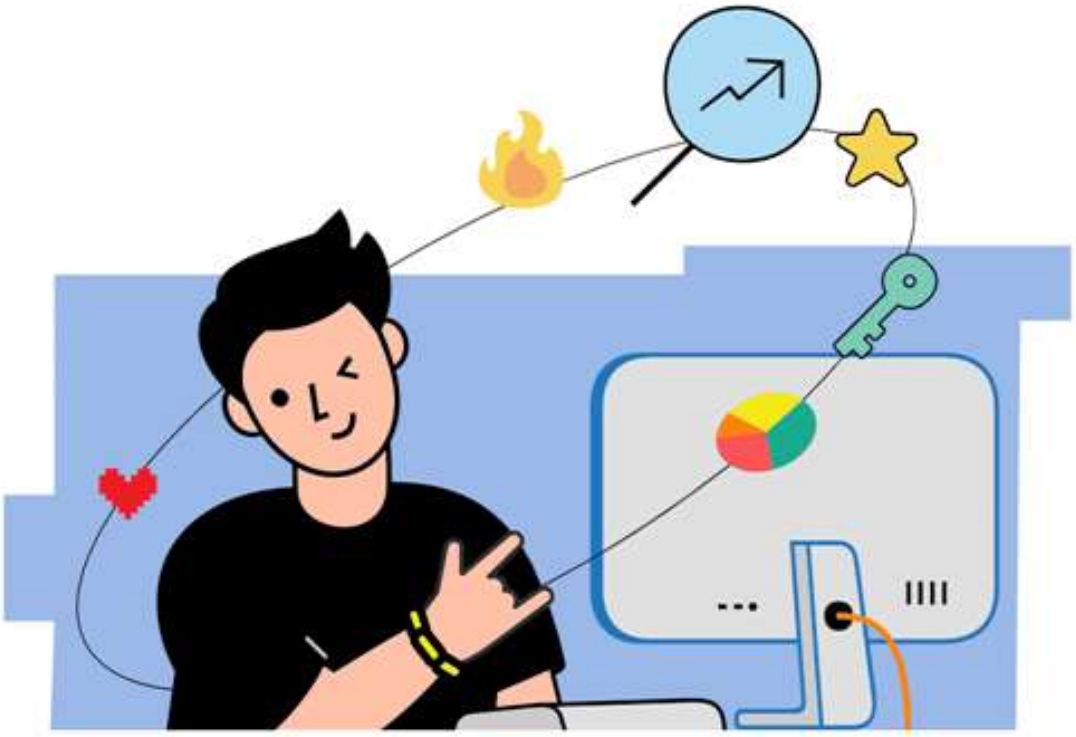
- **GIAC Certified Forensic Examiner (GCFE):** The GIAC Certified Forensic Examiner (GCFE) certification validates a practitioner's knowledge of computer forensic analysis, with an emphasis on core skills required to collect and analyze data from Windows computer systems. GCFE certification holders have the knowledge, skills, and ability to conduct typical incident investigations including e-Discovery, forensic analysis and reporting, evidence acquisition, browser forensics and tracing user and application activities on Windows systems.

- **GIAC Network Forensic Analyst (GNFA):** The GIAC Network Forensic Analyst (GNFA) certification validates a practitioner's ability to perform examinations employing network forensic artifact analysis. GNFA certification holders have demonstrated an understanding of the fundamentals of network forensics, normal and abnormal conditions for common network protocols, processes and tools used to examine device and system logs, and wireless communication and encrypted protocols.

- **Certified Information Privacy Professional (CIPP):** The IAPP offers the most encompassing, up-to-date and sought-after global training and certification program for privacy and data protection. The Certified Information Privacy Professional (CIPP) helps organizations around the world bolster compliance and risk mitigation practices, and arms practitioners with the insight needed to add more value to their businesses.

Conclusion

Digital forensics is a new age sunrise career. In addition, it is an exciting field to work in as no two days are likely to be the same. It also calls for a breadth of skills. Also, it is a highly paying career and as one gains in experience one also can become a freelance consultant billing on global projects while sitting in the comfort of your home. This can be a suitable career for veterans who have a curious mindset, are continuous learners and like to work in a fast paced environment. However, it calls for a adequate preparation especially by way of certifications which ideally must be gained while still in military service. With average cost of a security breach increasing with each passing day for an organization they are now more willing to invest in cyber security including hiring the relevant professionals. This makes this career future proof at least in the immediate future.



Pick a Career Path from a Myriad of Options in Digital Forensics

Col Iqbal Singh *Iqbal Singh joined the NDA in Jan 1984 and was commissioned into 4 GARH RIF in Dec 1987. He took premature retirement in 2008 with an ambition to make a career in the technology industry. He has worked with Satyam Computers at Hyderabad and Nokia at Noida. Currently he is working with a Big Tech firm based at Gurgaon. Iqbal likes to explain complexity with simplicity. He believes that anyone can make a career in tech with some upskilling and effort. Any feedback to this article can be emailed to him at iqchucks@gmail.com*

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

Wisdom Bytes

Game Plan for Second Inning

BY AJAY AHLAWAT

This article is aimed at military veterans who are contemplating early retirement (or, soon to retire on superannuation).

While retirement is an 'event', finding gainful employment post-retirement is a process'. Like in most things military, planning for a major event starts months in advance. Therefore, the game-plan for post- retirement employment must start taking shape at least two years before the event.

- **Appreciation:** One must start be laying down the planning parameters:
  - **Skill-set Available**: Assess the skills that you are carrying forward from military to civil. For example a military pilot or computer engineer could easily find similar roles in civil, whereas an infantry officer or an artillery gunner may not be easily employable. Generic skills like HR manager, supply chain specialist, security specialist etc require civil certifications to be useful.
  - **Skill-set in Demand:** Research must be carried out via internet, networking and feedback from Veterans to ascertain the skills that are in demand in the economy.
- **Aspirations**: As a next step, one must carry out aspirations management on a weighted scale. One leaves military for various reasons, seeking to fulfill some requirements of family, children, parents, money, self-actualization and so on. This is especially so in cases of PMR/PSS. The chosen game plan must fulfill most (if not all) of those. A suggested matrix would include (but not limited to) the following:

1. Place of work vis the place of residence
2. Parent's health and medical requirements
3. Children education and growth opportunities
4. Gainful employment for spouse
5. Access to infra (big city vs small towns)
6. Job satisfaction
7. Stature and level in organization
8. Emoluments
9. Free time and opportunities to engage in leisure activities.

- **Pick A Lane:** Don't scatter your effort. Decide on one or two possible lines of employment and start working on those. I have seen many Veterans waste precious time in deciding between business or job, eventually doing none.

(Pro tip : if you don't have a business plan ready by the time you retire, its best you seek a salaried job)

- **Business / Self-employment:** DGR offers benefits/ opportunities like COCO outlets, mining licenses, and security agency and so on. If you are considering one of these, it would be wise to interact with veterans engaged in similarly activity. Such engagement must start well before retirement and must include deep research. A detailed telephone call would not suffice; you must visit the place of business and gather feedback for yourself. Similarly, if you wish to join a family member or a friend in existing business venture, you must carry out a thorough research before jumping in.

Pro tip : All agreements and understandings must be reduced to writing, if you decide to invest/work with a friend or family.

- **Salaried Employment:** One could consider lateral employment offered in various other government departments. Aspirants of this option must do some research and be on lookout for such vacancies. For those opting for corporate opportunities must utilize the DGR sponsored pre-release courses in IIMs and other such similar institutions. The diploma certificate obtained in these courses doesn't count for much, however the gains in terms of networking and lateral learning are huge.

- **Sharpen the Saw:** Scan the job market for the roles that you would be interested in. Study the job -description carefully to ascertain if there are any shortfalls in your skillset. Most of the gaps can be fulfilled by short-duration online courses. In the armed forces, we acquire a lot of generic skills through our work on human resource management and material management. However, we don't receive a formal certification for the same. This deficiency can be addressed by undergoing online certification/ diploma/ degree in these domains. Such courses don't cost much in terms of time and treasure and should be completed before retirement.

For example, Amazon selects a large number of veterans every years. It also rejects a large number of veteran applicants each year. Your CV must reflect the QRs that the JD is looking for. One could do a Lean Six sigma online course coupled with Project management certification to add a little more weight to their CV. The job search must commence a year or two before retirement, allowing you enough time for obtaining required qualifications and certifications.

Don't be afraid of stepping out of your comfort zone and acquiring new skill sets. Most non-tech military personal are scared of Tech qualifications. They shy away from anything that has a computer involved in the process. This fear must be shed. Technical qualifications that involve computing, blockchain, data analysis, coding, cloud storage and so on are not very difficult to master. Most people with very basic tech background coupled with grasp of English language can grasp the essentials. The advances in AI and computing prowess has made these things simple to learn.

Remember : ABCT– AnyBody Can Tech.

- **Network through Teamwork:** You must align your efforts with other military personal in the same boat as you. Interact with other retiring candidates and exchange notes. Do it often and do it with as many as possible. You must also interact with Veterans who are currently in positions that you aspire to join. Social media has made it possible to network in a seamless manner across large distances and time zones. This advantage must be fully exploited.

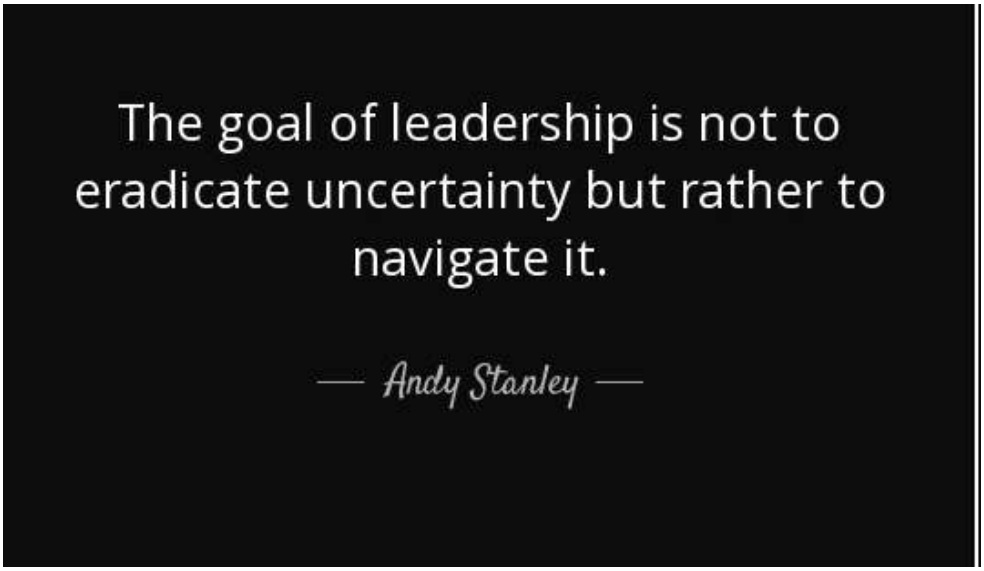
- **Alphabet Soup**: I am going to suggest a few courses / certifications that can be done by retiring candidates to enhance their employment opportunities. A detailed discussion on the modalities would make the post far too long. Aspirants can find out more via a simple Google search.

CSP, CBCP, PMP, CPP, AWS, CKS, CEH, CSM, CISSP, CSM, ISO, PYTHON, JAVA, C++, Blockchain, Data science.

In sum, devising a game plan for second inning is a time consuming process that can return handsome dividends if done carefully and diligently.

Group Captain Ajay Ahlawat, retd is a former Indian Air Force officer with a long and varied experience as a leader, fighter pilot, instructor and administrator with international exposure. Alumnus of National Defence Academy (Khadakwasla), Defence Services Staff College (Nilgiris), Air Command and Staff College (AL, USA). Keenly interested in matters concerning national security and strategic affairs. Can be reached at ajayally@yahoo.com, he is based out of Gurugram.

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



Wisdom Bytes

A Journey from Project Management Professional (PMP) to Program Management Professional (PgMP), and finally to Portfolio Management Professional (PfMP)

BY ASHUTOSH GARG

The journey towards becoming a highly skilled and recognized Project Management Professional is a challenging but ultimately rewarding one. This certification is considered a benchmark of professional competency and expertise and is widely recognized in the project management industry. In order to achieve the highest level of Project Management Professional certification, the PfMP, an individual must invest a significant amount of time, effort, and dedication into their studies.

My passion for project management and my desire to continuously improve my skills led me on a journey towards the PfMP (Portfolio Management Professional) certification. It all started in 2013 when I successfully cleared the PMP certification, which was a great accomplishment for me. However, I was determined to not stop there and wanted to push myself further in my career.

Project Management Institute.

THIS IS TO CERTIFY THAT

Ashutosh Garg

HAS BEEN FORMALLY EVALUATED FOR DEMONSTRATED EXPERIENCE, KNOWLEDGE AND PERFORMANCE IN ACHIEVING AN ORGANIZATIONAL OBJECTIVE THROUGH DEFINING AND OVERSEEING PROJECTS AND RESOURCES AND IS HEREBY BESTOWED THE GLOBAL CREDENTIAL

Project Management Professional (PMP)®

IN TESTIMONY WHEREOF, WE HAVE SUBSCRIBED OUR SIGNATURES UNDER THE SEAL OF THE INSTITUTE

Jennifer Tharp | Chair, Board of Directors

Pierre Le Manh | President & CEO

PMP® Number: 1640984 PMP® Original Grant Date: 12 July 2013 PMP® Expiration Date: 12 July 2025

However, I faced multiple setbacks including family and work constraints that prevented me from moving forward to the next level, the PgMP (Program Management Professional) and then to PfMP (Portfolio Management Professional). Despite these challenges, I was determined to continue my journey and to achieve my goals. One of the biggest challenges I faced was finding the time to study. With work and family commitments, it was difficult to carve out enough time to devote to my studies. However, I was determined to succeed, and I made the decision to prioritize my studies and make the time. I set aside a specific block of time each day to focus on my studies and I made sure to stick to that schedule. I also made the decision to prioritize my studies over other commitments and I was strict with myself when it came to staying focused and on track. I got ample support from my family as well, where they supported me for all big and small work, so that I can concentrate most of my time on studies.

For many individuals, balancing work and family commitments can be a major challenge. However, with support from family, the journey can become much easier. In my case, I was fortunate to have the full support of my family throughout my journey. They provided me with the support I needed to focus on my studies and achieve my goals.

Another challenge I faced was staying motivated. The journey towards becoming a Portfolio Management Professional is a long and arduous one, and it can be easy to lose sight of the end goal. However, I was determined to succeed, and I kept my eye on the prize. I reminded myself of why I was pursuing this certification and I focused on the benefits it would bring to my career and my life. I also reached out to other professionals in the field who had already achieved their certifications, and I learned from their experiences and drew inspiration from their success.

In January 2022, I embarked on a journey to attain the Program Management Professional (PgMP) certification. This certification is widely recognized in the project management industry and is considered a benchmark of professional competency and expertise. To achieve this certification, I knew I needed to put in a lot of hard work and dedication.

I started my preparation with a mix of online self-study and contact classes. The contact classes were incredibly helpful, as they provided me with hands-on experience and allowed me to interact with experienced project management professionals. I also spent a significant amount of time studying on my own, dedicating 150 hours to slow pace study and 100 hours to intense study.

The application process for the PgMP certification was rigorous, and I had to demonstrate a high level of knowledge and expertise in program management. I had to demonstrate my experience in leading and directing multiple interdependent projects, as well as my ability to manage resources, budgets, and schedules.

I am proud to say that all my hard work paid off, and I cleared the PgMP certification in September 2020. I am **among the 400 Indians** to have cleared the PgMP certification, which is a significant achievement.

The PfMP certification is the highest level of Project Management Professional certification and is considered to be the gold standard in the field. It covers a wide range of topics, including portfolio management, program management, and project management, and tests a candidate's knowledge and skills in these areas, as well as their ability to apply them in real-world situations.

The final stretch of my journey was the most intense. I had to balance my work and personal commitments with my studies, and the pressure was mounting. However, I was determined to succeed and I pushed myself to the limit. In the last ten days leading up to the exam, I contributed over 100 hours of study, determined to achieve my goal. I made use of a variety of study materials, including textbooks, online courses, and practice exams. I also made sure to get plenty of rest and exercise to keep my mind and body in peak condition.

In July 2022, my efforts paid off. I successfully passed the PfMP certification and became the 124th Indian to do so. I was thrilled to receive my certificate and to have achieved Above Target in all modules. This was a testament to my commitment to professional development and the pursuit of excellence in my field.

My journey from PMP to PfMP was a challenging but rewarding experience. It required a significant investment of time, effort, and dedication, but the rewards were well worth it. I am proud to have achieved the highest level of Project Management Professional certification and to have become a recognized expert in my field. This journey has not only improved my professional skills, but it has also helped me grow as a person and has given me a sense of pride and accomplishment. I would highly recommend the PMP, PgMP, and PfMP certifications to anyone who is looking to grow professionally and to achieve their full potential in the field of project management.

Project Management Institute.

THIS IS TO CERTIFY THAT

Ashutosh Garg

HAS BEEN FORMALLY EVALUATED FOR EXPERIENCE, KNOWLEDGE AND PERFORMANCE OF PORTFOLIO MANAGEMENT AND IS HEREBY BESTOWED THE GLOBAL CREDENTIAL

Portfolio Management Professional (PfMP)®

IN TESTIMONY WHEREOF, WE HAVE SUBSCRIBED OUR SIGNATURES UNDER THE SEAL OF THE INSTITUTE

Jennifer Tharp | Chair, Board of Directors

Pierre Le Manh | President & CEO

PfMP® Number: 3268291 PfMP® Original Grant Date: 18 July 2022 PfMP® Expiration Date: 18 July 2025

Project Management Terminology and Certification Overview:

- **What is a Project:**

A project is a temporary effort designed to achieve a specific outcome or deliverable. Projects have a defined start and end date and are usually executed to address a specific business need or to bring about change. Projects typically involve a team of people with specialized skills and a defined budget, schedule, and scope. The purpose of a project is to deliver a unique product, service, or result that meets the requirements of stakeholders.

Effective project management involves defining and planning the project, executing the work, monitoring progress, and controlling changes to ensure that the project is delivered on time, within budget, and to the required quality standards. Projects can vary in size, duration, and complexity and can range from simple, short-term tasks to complex, multi-year initiatives.

- **Project Management Professional (PMP) Certification:**

PMP is a globally recognized certification for project managers. The certification is offered by the Project Management Institute (PMI) and is highly valued in the industry. To become PMP certified, an individual must pass an exam that tests their understanding of project management best practices and their ability to apply them in real-world situations. PMP certification demonstrates a professional's expertise in leading and directing project teams, as well as their ability to successfully deliver projects within constraints such as budget, schedule, and resources. PMP certification is a valuable asset for project managers who want to enhance their career prospects and demonstrate their commitment to the field.

- **What is a Program:**

A program is a group of related projects and activities that are managed in a coordinated way to achieve specific outcomes and benefits that align with an organization's strategic goals and objectives. Programs are typically larger and more complex than individual projects and are designed to deliver outcomes that cannot be achieved through a single project. Programs are typically made up of multiple interdependent projects and often require the coordination of resources, risks, and stakeholders to achieve desired outcomes.

The purpose of program management is to ensure that the program is delivered effectively and efficiently and that the desired outcomes are achieved. Effective program management helps organizations achieve their strategic goals by ensuring that the work being done is aligned and focused on delivering the maximum possible value.

- **Program Management Professional (PgMP) Certification:**

PgMP is a certification offered by the Project Management Institute (PMI) that recognizes the expertise of program managers. PgMP certification is designed for professionals who are responsible for leading multiple, related projects that align with an organization's strategic goals and objectives. The certification validates an individual's knowledge, skills, and experience in program management, which involves coordinating resources, risks, and stakeholders to achieve desired outcomes.

To become PgMP certified, an individual must pass an exam and demonstrate their experience managing complex programs. PgMP certification demonstrates a professional's ability to effectively lead programs and deliver results that make a significant impact on an organization's success. It is a valuable asset for program managers looking to advance their careers and demonstrate their commitment to their profession.

- **What is a Portfolio:**

A portfolio is a collection of projects, programs, or other work that are grouped together to align with an organization's strategic goals and objectives. Portfolio management involves the coordinated management of resources, risks, and opportunities across the portfolio to achieve desired outcomes.

The purpose of portfolio management is to ensure that the organization is making the best use of its resources by prioritizing initiatives that align with its strategic goals and ensuring that projects and programs are delivered effectively. Portfolio management provides visibility into the organization's entire portfolio of work and helps decision-makers allocate resources, manage risks, and make informed decisions that support the organization's goals and objectives.

- **Portfolio Management Professional (PfMP) Certification:**

PfMP is a certification offered by the Project Management Institute (PMI) that recognizes the expertise of portfolio managers. PfMP certification is designed for professionals who are responsible for overseeing the management of an organization's portfolios of projects, programs, and other work to achieve strategic goals and objectives. The certification validates an individual's knowledge, skills, and experience in portfolio management, which involves balancing resources, risks, and opportunities across the portfolio to achieve desired outcomes.

To become PfMP certified, an individual must pass an exam and demonstrate their experience managing portfolios. PfMP certification demonstrates a professional's ability to effectively lead portfolios and make strategic decisions that align with an organization's goals and objectives. It is a valuable asset for portfolio managers looking to advance their careers and demonstrate their commitment to their profession.

Maj Ashutosh Garg *is a seasoned professional, with 21 years of experience in project management, with a wealth of knowledge and skills in various aspects of the field, including Portfolio Management, Program Management, Project Management, PMO, Presales Support, and Operations & Maintenance. -Currently, employed at Nokia, and responsible for managing Cloud-based 4G & 5G IMS Core Network Projects across Europe, Middle-East, Africa, Asia Pacific & Japan Markets. An Army Veteran, having served as a Short Service Officer in the Corps of Signals till Year 2007.*

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

Leisure

SMILE

BY VIBHUTI MANGAL

Smile for the tiny sparkles
Hidden in your eyes
Smile for the lively aura
Beaming out from your vibes...

Smile for flaunting beautiful mind
Reflecting the magic of lips
Smile for purifying the soul
And glorifying the flips...

Smile for the coziness you have
For all the hardships you face
Smile through the grueling fudge and fuss
Smile coz you look brave thus...

From that notorious smirk
To that heartfelt laughter
Somewhere in between this voyage
Smile for this beautiful trail art...

Smile coz you look pretty
With captivating sunshine but witty
Unfurling the chuckles and love dew
Smile coz it belongs to you!

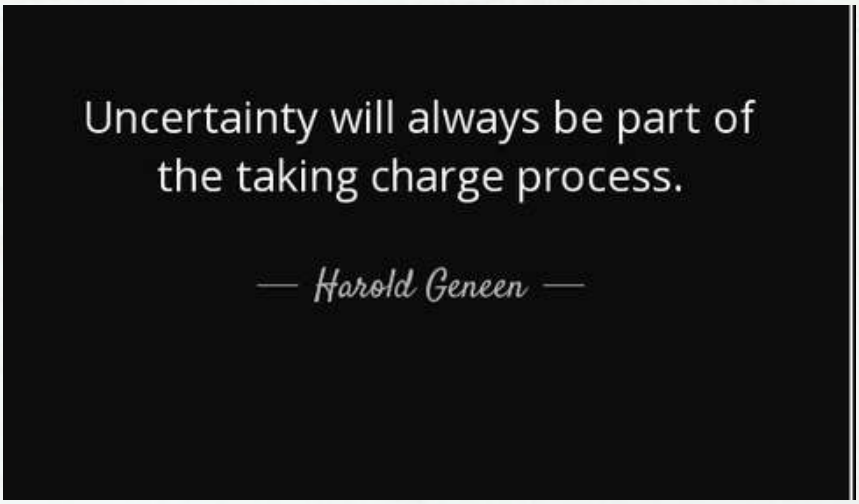
Squadron Leader Vibhuti Mangal *is from the Pink City of India. Currently, she is working as Program Manager II at Amazon. She is a National Martial Arts Champion, a trained Skydiver and a certified Pranic Healer. In her leisure time, she loves to paint, skate and climb mountains. Intelligence, wit, wisdom, courage and compassion is what defines her character. Her book, "Elements of Emotions" had won India Authors' Award 2021 and received appreciation from the Vice President of India.*

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

Matrimonials

Groom Desired

A suitable match is sought by Wing Commander Arup Kumar Roy(Retd) for his daughter. The daughter was born on 16 Oct 97 and is 167 cm tall. Her education qualification is Masters (MA) in English and International business management-Logistics system. She is not working now. Father is retired and the family is presently settled at Vadodara / Baroda in Gujarat. Her mother is working as a principal in a school. She has one sister who is married and working in USA. I am looking for a Bengali boy from Defense officers, age between 26-28 years & Min height 5 feet & 7 inches. I, Wing Commander Arup Kumar Roy (Retd) can be reached at +91 9227459019, email aruproy_03@yahoo.co.in



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