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SAMPADA

Your window to UVCE

Edition 129

EDITORIAL

Editorials are articles that were written on issues based on loads of experience in reporting the editors gained over the years. I am no editor and reporting is alien to me. What I intend to convey through this is more of a guidance that has been given always - through teachers, parents, elders. I'm talking about Consistency & Perseverance.

Since I passed out as an engineer I've tried to go in the path of know it all which led me into a zone wherein I lost out on mastery of the domain i was working on. I had to course correct myself to create a focus group of things I wanted to concentrate on and be proficient in. During the know-it-all phase, I lost out on a lot of time and efforts that were put on knowing rather than mastering, didn't fetch me results. It led me to doubt myself, created frustrations. So the missing key here was the consistency and perseverance.

For the students passing out of engineering and entering the next phases of their lives, the general tendency would be to learn as much and as many tools/technologies/languages. It is a good thing to learn but the time of learning can be better utilized by gaining expertise in certain areas/domains rather than spread it. The shift in the industry is happening along the same lines too with expertise in a/few area/s rather than just the know-how. The enterprise products that are making a mark are the ones that are less error-prone, consistent in doing what it offers and offers longevity. The quick-to-market approaches are being dissuaded mostly.

While this was happening, on the other channel, as part of the team of VisionUVCE we have been consistent with the various activities all along. We have been consistently running the scholarship program. We have been networking with the college (students/faculty/ alumni) and have been trying to be a bridge for all the three for more than a decade now. We have tried to keep the finance - accounts well audited and open for all - for which few alumni have always appreciated and also been supporting us. We have constantly supported student initiatives and have listened to the students on their needs and tried to help them out periodically. We have been supporting events within the college. We have organized many events to bring together alumni and tried to involve them in the activities within the college, sometimes just to give out information and sometimes to hear from the alumni, students and faculty on how a problem has to be tackled.

With such a credibility being built, the new initiative of UVCE Graduates Association should be bestowed with more trust than it is being offered. VisionUVCE, as a Trust, has tried to live up to its objectives and the same will be done with Graduates association too. With that in mind, let's drive the membership for the Graduates Association in a bigger way and trust that the future will be better with more people involved. That probably will be the motivation for us, the VisionUVCE team, that we are on the right track and encouragement to take on bigger issues.

- Sriharsha DV, 2009 ECE

You might recall that the committee formed to suggest a proposal to make UVCE Autonomous had submitted the report in July, 2020. We had shared the highlights saying that the report recommended on developing the UVCE into a ‘State Institute of Eminence’ and deliberate on upgrading University Visvesvaraya College of Engineering (UVCE) to make it at par with Indian Institutes of Technology (IITs). You can read the complete Report here - **Click Here**

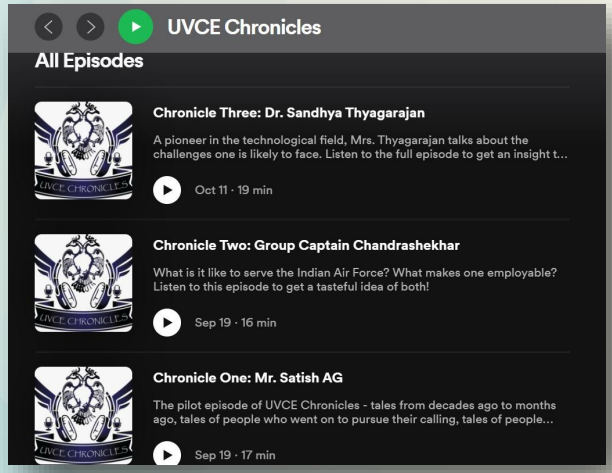
UVCE CHRONICLES

UVCE is a mesmerizing place! Being the home to countless engineers over the span of 103 years now—this place has never ending stories in its basket, associated with tales and journeys of many achievers. When Sampada was started by VisionUVCE, the aspiration was to capture all the opulent history of UVCE in words and document it for the generations to come and for the present to cherish.

A addition in this line of efforts is an initiative launched recently, in association with UVCE Graduates Association, on the occasion of Engineer's Day - 'UVCE CHRONICLES'.

Aimed to bring stories of many of our alumni to life and share it with the community, the initiative is decked in an engaging format of a podcast—a lively audio chat/interview. We already have 3 episodes out and the feedback has been amazing. Hosted on the web for a easy reach, each episode has an interview with a member from the team in conversation with an alumni bringing in questions of different themes.

This new initiative, new format has a enthusiastic and young team working to create each episode. They are just not alumni but current students of UVCE enthralled to learn more about namma UVCE alumni—Shrinidhi Prasad, 2nd Year ECE & Vakesan M, 3rd Year Mech who manage the logistics of editing and sound ; Neha H, 2nd Year EEE who handled the designs and created a fascinating logo; Varsha Bhat, 3rd Year ECE who direct each episode and interviews the guest.



LISTEN ON SPOTIFY

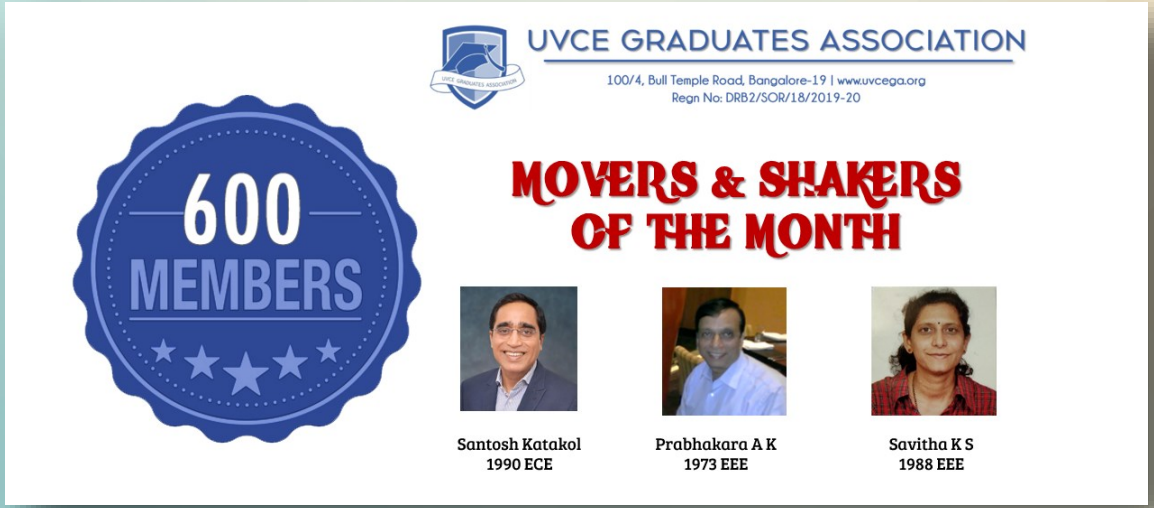
LISTEN ON BROWSER

The first/pilot episode saw Satish A G (2009 Batch) talk about the start and the journey thus far of VisionUVCE, the second episode had Group Captain Chandrashekar (1990 Batch) share his experiences and thoughts about employability, the third episode (just released) has Sandhya Thyagarajan (1992 Batch), VP (SEBU), Centum Electronics engage in a talk about the industry and her journey.

You have loved, mentored and been a part of the growth of SAMPADA over the last 10 years. We hope you will join hands with us in this new initiative—UVCE Chronicles too and provide the same support and love. We cannot wait to have each one of you in the episode!

Let us know if you would like to be featured in the Chronicles! Write to us at info@uvcega.org

A new milestone reached… Thanks to the "Movers & Shakers" for motivating other UVCE alumni to join UVCEGA!! Register Today - https://www.uvcega.org



BEYOND THE SKY! - INTERVIEW WITH ANURADHA TK

Team Sampada had the delight of interacting and interviewing Mrs. Anuradha T K , Retired Indian scientist and Project Director, SATCOM Programme, Indian Space Research Organisation (ISRO). She is a proud alumnus of UVCE from Batch 1982 ECE. She is the first woman to become a satellite project director at ISRO who led teams for the successful realization and launch of GSAT-12 (2011), GSAT-10 (2012). Her revolutionizing and pioneer work in the field of geo-synchronous satellites made her a instrumental part of developing various Indian Space Programs. She also represented India/ISRO in the Royal exhibition Engineers Panel discussions at London, UK along with the representatives from NASA and ESA in 2019.

She has several awards to her credit including 2003 Space Gold Medal award by Astronautical Society of India for the services in the field of Space sciences, 2011 Suman Sharma Award by NDRF, 2012 ISRO Team Award, "Hemmeya Kannadiga Award – 2019" by Zee Kannada and many more.

Here is an excerpt of Anuradha Ma'am's journey and achievements:

Team Sampada: Can you please give an overview about your career and journey as an Engineer with ISRO?

Anuradha: I joined ISRO at ISRO Satellite centre, immediately after my graduation from Bangalore University in 1982. I started as Spacecraft test engineer. I had a great opportunity to work on satellites directly as my work involved development of equipment to test the satellite onboard systems, develop interfaces, develop test methods and conduct tests on satellite in various environmental conditions. It was an end to end experience which was very valuable for my career. I worked on both the Remote sensing satellites and communication satellites. This gave an opportunity to be part of the launch campaigns too and learn about the interfaces for both Indian and foreign launch vehicles. The multi-disciplinary teams, multi-national teams with which I worked was a great career opener indeed.

Later I moved on team leader both on development side and on the Spacecraft project side. Got an opportunity to work on Indian Navigation system from its formative years which added an immense experience in the new field as well.

Further I was elevated to take up the independent charge of communication satellites in GSAT series as Project Director. Later I moved on as Programme Director for the all the programs concerning Geo Orbit, which included communication, meteorology, imaging and navigation functionalities. This was a good opportunity to be part of the Centre's Council and contribute towards the planning and management of larger systems.

In the last 2 years of my career, I worked at ISRO Head Quarters as Director, SATCOM Programme. This tenure opened up an entirely new gamut of activities while implementing policies, making new policy drafts, interface to user community, to various ministries and departments. Most importantly, managing and protecting the space spectrum from national and international bodies was also part of my responsibility.

I am really fortunate to have had my hands on various different activities of the organisation and there was never a dull day in the entire service time of nearly 38 years. Most importantly I cherished working with great leaders and I gained friends everywhere which is of immense value to me.

TS: How would you recall your UVCE - College days? How was the college environment for girls in those days?

A: College days at UVCE fill my memory with very pleasant thoughts. We had a great group, both boys and girls. UVCE was the first option for the merit students and naturally there were

hard working and studious boys and girls. None the less, we had loads of fun too. Many of us used commute using our bicycles which was so much fun in the old Bangalore. We would spontaneously decide for a treat at Kamath or a movie at Majestic area or a walk in the Cubbon park or visit a friend who has not attended college and so on. I remember we had an event at Town hall and 4 of us girls had put up a show too.

In fact, regarding academics we were slightly unlucky as some of the best teachers had to leave to pursue their PhD. Also, there were very few lecturers who were regular on classes. But, we made study groups of students who were interested, pool the books and material, read quite a lot on our own, discuss together and so on. I remember our electronics lab which needed a serious upgrade in those days. Despite all these, on the day of semester results, UVCE students would be doing remarkably well.

But nothing can stop the bright youth filled with enthusiasm to make best of the available and I see today most of my batch mates did very well in their lives. Those were the days when Microprocessors were not even part of the syllabus but most of the project work were made using processors. In my own team was an extraordinary student, Gopalakrishna, whose understanding of the subject was beyond all of us.

There was nothing specific about the environment for girls, We never felt we were different or exclusive or neglected though we were only about 25% of the total strength. It was a very healthy atmosphere in that respect. Of-course, the girls' rest room was in a deplorable situation. Hope that has changed now.

Most importantly, I met my husband, Kiran, at UVCE who was my classmate too. That adds rainbow colours to my memories. :)

TS: In the initial days, what was the culture for professional women, that too, in the Space Technology field?

A: Oh well. It was not such a Dinosaur era. Space technology was mainly limited to ISRO in those days. ISRO has always maintained one of the best environment for women. I am happy we don't go overboard on either giving special treatment or side lining based on any classifications. Men and women need to work shoulder to shoulder beyond the office hours, round the clock. There is a focus on the work, tight schedules and on excelling. I would say, the work is so exciting and enthralling, one forgets about such classifications. The rewards too are irrespective of one's gender and only based on merits.

TS: In the current scenario, how do you think the alumni (including yourself) can contribute towards the betterment of UVCE ?

A: Students need exposure to the world outside. There is a lot to be looked into including the syllabi. A great thrust on experimental work, project work is needed for engineers along with theory, even from the first year. If such a thing can not happen as a mandatory requisite, can alumni provide such facilities to interested students, even if it is beyond the college time? Alumni also explore such opportunities provided by some of the organisations & make it known to students. If the content of the students is improved in some way, that would be better than monetary help. Alumni also can give career guidance. Anything that makes them better ready for the industry is great.

TS: Since you have worked in a field which many aspire to be in, what would you suggest the current students and recent graduates?

A: I think the students in general aspire to be in the IT industries nowadays. However, I strongly suggest that, the students need to focus on sharpening their abilities across the various specialities at undergrad level. In the professional world, unless one is in a highly specialised niche area, a multidisciplinary knowledge is very valuable.

Space is a typical multi-disciplinary field which needs all specialists in Physics, Chemistry, Maths, Biology, Computations, Engineering, Medical for its activities. And finally, I suggest there is no substitute to hard work, genuine interest and integrity at all times and in every circumstance.

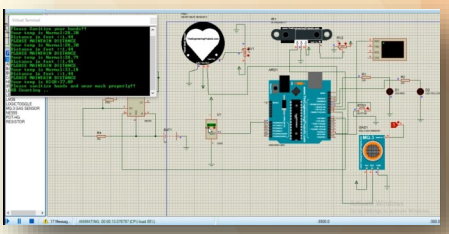
BRAINS AT WORK

IEEE UVCE SIGHT conducted a month long project contest for students keeping the current scenario in mind. The contest started in August 2020, and the participating teams were given a month to work on a project of their choice. The only condition was that it had to be related to Covid-19 and help the society out in some way.

Teams worked on various interesting projects. Due to lack of components, some of them had to be done on simulators. The event went on smoothly. Coordination was over a WhatsApp group, where regular reminders were sent. Solid ideas from this contest were also selected for IEEE Humanitarian Activities Committee. Here are few thoughts from the winners of the contest!

First place: Team Wonder Avengers

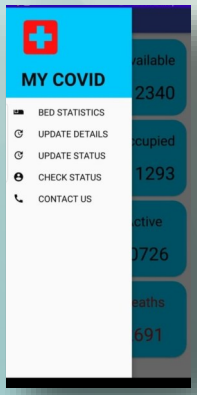
"Covid-19 has created a havoc in the world. Every person is affected, directly or indirectly. When we cannot control the wave of destruction, we have to learn live with it. We have to tame the destruction, trying to sprout life inside the havoc. It takes time and rules to bring materialistic fast moving world to live amidst the destruction. Doctors, engineers, scientists, farmers, educated, illiterate everyone has to unite against this virus to put an end to it. Using various technology to help people tame their lifestyle, such that they are not hit hard by the virus. Social distancing is the rule no.1 for keeping the virus at par. But this doesn't mean we have to disconnect ourselves. We can maintain sanity and still go on with our life. Our project is a Mask detector and smart device. These are two different technologies fused together for the betterment of human lifestyle.



Mask Detector is a modified metal door frame which detects proper orientation of the mask and the person's safety of being in public. With the help of image processing and Arduino simulation this was achieved. Using image processing we were able to detect the proper orientation of the mask, using a display circuit we were able to display the warning message. The smart device gives out timely information. The much needed social distancing is alerted by this device keeping the person from being affected. The experience of developing a technology with a team where every individual's efforts are equal and balanced. When team is balanced nothing seemed tiring, even the virus was too small to scare us. The thought of doing good through your knowledge develops a special feeling which is just to be experienced."

- Monika R, 3rd year, ECE; Krupa K, 3rd year, EEE; Sahana N, 3rd year, EEE; Harshini B R, 3rd year, ECE; Maanasa H B, 3rd year, EEE

Second place: UVCE ISE



"During the COVID 19 pandemic, in Mumbai, New Delhi, Bangalore and many other cities in India, there was a shortage of beds observed with many patients who had serious health conditions, having to receive delayed medical treatment. But at the same time, there were asymptomatic patients who had been admitted to the hospital when hospitalization wasn't necessary. Instead, they could simply have been kept under home isolation. To solve this problem of inefficient bed allocation, data from past cases was analysed and used to train machine learning models, which were used to predict the severity of the condition of a patient, based on the symptoms they have, their age and the pre-existing health conditions.

This prediction can be used to assist doctors to determine whether a patient needs a bed, and if yes, what type of bed (whether a bed with a ventilator, oxygen or without both), or if not, whether the patient needs to be under home isolation. Also, it helps to reduce the burden on doctors during bed allocation of patients. All these results were made available to the end users in the form of mobile applications and web pages. A working prototype, in which all of the above features were implemented, was built."

- Dhruva S, 2nd year ISE; Hansif P P, 2nd year ISE; Ankur Singh, 2nd year ISE; Darshan P, 2nd year ISE

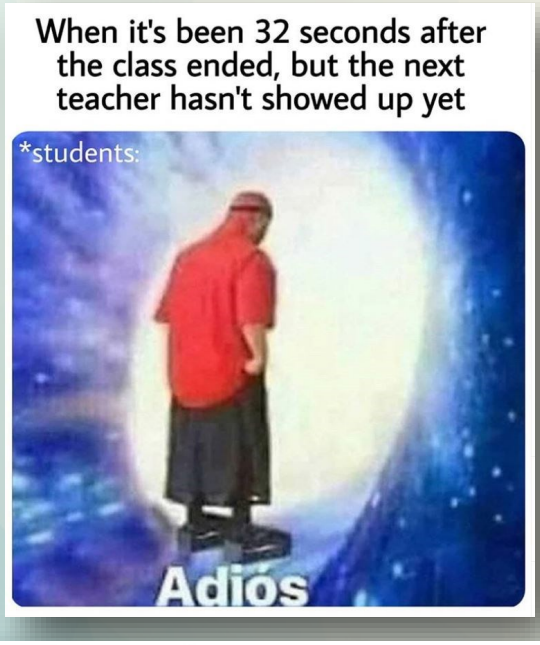
Third place: Pandamic Predatars

"My friends, Vakesan, Varsha and Sunkeerth and I decided to make the best of this opportunity by IEEE UVCE and formed the team 'Pandamic Predatars' (yes, its punny). The existing process for testing a person is quite lengthy and tedious where medical professionals and volunteers have to come physically and take your samples, then send it to a lab which takes 4-5 days for confirmation. Our project eliminates all of this. We establish a direct connection between a person and his doubt to check whether he is affected by the Virus.

Our team built a website where a person can record and upload one's cough sample. The website then runs an algorithm which determines whether the person is COVID-19 positive or not. In the background of this project, we first understood how different the cough samples are when compared to normal cough. We then used Machine learning algorithms and libraries to train the model based on these observations to classify a COVID cough from that of a regular one. Within a span of a month, the event saw a good number of other potential and impactful projects and we are glad to make the best of it."

- Sanketh Rajshekhar Patil, 3rd year MECH; Sunkeerth M, 4th year ECE; Vakesan M, 3rd year ECE; Varsha S Bhat, 3rd year ECE

BUGS OF UVCE

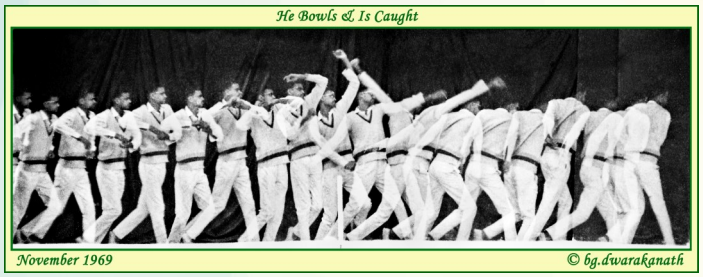


IN TALKS WITH B G DWARAKANATH

Mr. B G Dwarakanath is an alumnus of UVCE who passed out as a Mechanical Engineer half a century back ! (1970 Mech). As our team reached out to him to know more about him and his journey, we not only had a hearty chat but also came to know about an article written about his accomplishment at TITAN by a top TATA executive recently. So here in this excerpt, find more about Dwarakanath Sir, his accomplishments and journey:

Mr. B G Dwarakanath (BGD) has over 45 years of experience in the field of Horology and Micro Precision engineering industry that include 30 years of association with Titan Industries as employee No.2. He retired from Titan in June 2015 as Senior Vice President and Chief Operating Officer. He had worked close to 15 years in HMT watch division prior to joining Titan in 1985.

He is currently a consultant and an Executive Coach and sits on the Board of few companies and Advisory board of few educational Institutes. He is specialized in conducting Leadership Development Program and delivers lectures on TQM in Daily Life, Innovation, and Manufacturing Excellence at various forums and management Institutes. His hobbies are widespread from Fret working, traveling to magic, humour. He is an accomplished photographer and has special interest in Industrial Photography. During his UVCE days ,he designed a Mechanical Camera shutter for taking multiple exposure action photos and it is heartening to note that the initial trial shots were made at UVCE in one of the class rooms of Mechanical block with another UVCE stalwart Rear Admiral Dilip Deshpande, his class mate as a Bowling Artist.



He has served as an active member in various CII forums such as TQM, Manufacturing, Quality & Reliability as well as in ISO sub committees in the field of Horology. He Solely represented India for the first Time, in the 1997 Horology meetings of “ISO TC 114” held in Japan. He has number of engineering designs to his credit in the field of Horology and holds one tentative individual patent & two joint patents. In recognition of his contributions to the field of horology “Technocrat of the year 2002” was awarded to him by “Trade Post”, Asia’s Leading Magazine Exclusively Devoted to the Watch & Clock Trade Industry.

While at HMT, he was instrumental in designing and productionising a New Automatic Winding Mechanism for Mechanical Watches that was highly appreciated and approved by their technical collaborators, Citizen Watch co, Japan. This design made in 1975 was in production for more than 30 years !

During his tenure at TITAN, he established Production shops, Quality management systems and key Technology drivers - R&D and New Product development that are crucial for a fashion industry. He was a key driver for technology upgradation that included Physical vapor deposition for decorative purposes as well as a high level of automation in manufacture of micro precision watch parts and watch mechanism. BGD also founded a new division “Precision Engineering Division, as an SBU of Titan. This division today is well recognized by its Automotive and Aerospace Industry customers for its technical proficiency, quality management systems and product quality. It is also well known for providing world class Automation solutions.

BGD played a pivotal role in the development of the Titan’s range of watches – ‘EDGE’ that won the Marico Innovation Foundation award. This development found an entry into the book titled “Making Breakthrough innovation” by author Porus Munshi on “How 11 Indians pulled off the impossible”. The story about the development has been summarized in the following article written and published by Harish Bhat - Brand Custodian, Tata Sons; Passionate Marketer, Author and Columnist; LinkedIn Top Voice 2019 :

In these difficult times, it often helps to read positive, inspiring stories which elevate us. The stories that I know best come from the history of the timeless Institution that I am proud to be part of - the Tata Group. I intend to publish a new story as often as possible, over the next few weeks. Each story can be read within seven minutes.

Here is the 35th Tata story in this series. This is the story of how the slimmest watch in the world was created by the Titan Company.

A fascinating "Make in India" story, which shows how belief, persistence, technology and styling came together to create the Titan Edge, one of the most iconic wrist watches in the world.
I hope you enjoy reading this interesting piece from modern Tata history.

The Slimmest Watch In The Universe

B.G. Dwarakanath (fondly called BGD) is a long-time Tata veteran, having worked for three decades with the Titan Company. He is a restless horologist, technologist and expert photographer, with an earthy sense of humour.

In 1997, BGD and his colleague Subramanya Bhat decided to meet Xerxes Desai, the legendary Managing Director of Titan. They wanted to discuss an audacious project with him, one that no other Indian Company had ever undertaken before.

They walked into Desai's sixth floor corner office at the Titan headquarters in Bangalore. BGD lost no time in putting forward his proposal. "We would like to manufacture the slimmest watch movement in the world", BGD told Xerxes Desai, "a movement as slim as a credit card. Just 1.15 mm. thin, including the battery. A movement which is robust, and can be mass manufactured for use in beautiful, ultra-slim wrist watches. First time, anywhere in the world."

A movement is the engine inside every watch, that keeps it moving, and tells the time accurately. Both Desai and BGD knew that slim movements were extremely rare, because they were so challenging to design and manufacture. Even the few ultra-slim European and Japanese movements which existed then were produced in very small quantities, were very expensive, in some cases their reliability was in question, and therefore, they were virtually museum pieces.

BGD looked at Desai expectantly. "Sir, this will be a real breakthrough for us, something that is world-class and beyond." He saw that Desai was looking at him carefully. His eyes had widened, there was absolute silence. Finally, Desai spoke, in his polished, soft Oxford accent - "Go ahead."

BGD and Bhat rushed out of Desai's room. Their hearts were jumping with joy. Their leader was willing to take this risk, invest behind something that had never been done before. While they had indeed designed a slim watch movement a few years earlier, which had also won an award in 1996, the proposed ultra-slim 1.15 mm. movement would be in another league altogether.

A project team was quickly constituted, including technologists, manufacturing experts and designers. BGD insisted that the team should have the best minds, and not people who could be spared for a project which was in the domain of wishful thinking. "I want each of you to be part of this huge success story", he told team members. They were excited, but also apprehensive. Most importantly, they were eager and restless.

This was the beginning of the search for many answers. The first big question, how do you develop such a slim movement, with high time-telling accuracy? This would require a step motor with high torque, yet low electric power consumption. The team resolved this challenge by working with Audemar, a Swiss Company, and then married the step motor to an inhouse developed circuit board which was equally thin. Later, the step motor was quickly indigenized by the team, with even better performance.

Then, it was important to ensure long battery life of the watch. No one wants to change a watch battery often. To ensure this, the entire internal mechanism should draw very little current. All parts had to be miniaturized with strict tolerances. Here, again, the technical team worked relentlessly in their laboratories. Eventually, what they achieved was marvellous. The electric power required to light up a 40 watt light bulb for just one hour, can power this ultra-slim watch for more than 50 years!

By the year 2000, a working movement was ready. The initial proposal was to sell this ultra -slim movement to Swiss watch makers, but the haughty Swiss refused outright, to buy an Indian watch movement. BGD recalls how a Swiss representative of the famous brand Raymond Weil once told him, at the Basel Global Watch Fair, that an Indian movement would dilute their strong brand image. So the Swiss would never consider using it.

BGD came out of that meeting crestfallen but determined. He had great pride in what his team had developed in India, and so did his boss Xerxes Desai. Once they were back in India, Desai decided that if the Swiss were unwilling to buy the movement, Titan would use it to launch its own branded ultra-slim watch.

Once again, this was a bold decision, because there was no consumer research that Indians had any need for ultra-slim watches on their wrists. But that is what courageous marketers do. When they have a breakthrough product, they don't rely on research. Instead, they work to generate desire and demand for it.

However, Desai also quickly jolted the team into the reality of what this decision meant. "Our ultra-slim watch has to be made for Indian consumers to wear every day. So it has to be water resistant", he told the team, "otherwise it cannot survive Indian conditions. This is essential."

Once again, BGD and his team went into a huddle. Here was a new challenge, now. How could such a slim movement and a watch with such thin surfaces, be made water resistant?

This would require the watch to be housed in an external case which had very thin walls, but was extremely strong and robust. Here again, BGD along with his colleague B.V. Nagaraj, approached Swiss manufacturers, who were the most experienced in the world of watches, for help. Once again, the Swiss said "No", and shut the door. Swiss factories were unwilling to accept this challenge or help Titan. Would this now spell the end of the project?

Of course not, because the Titan team were unwilling to give up on their cherished dream. BGD recalls that the team came together, and decided that if the Swiss would not help, we would do it ourselves, back home in India, in our own beloved Titan watches factory at Hosur, in Tamil Nadu. What Switzerland can or cannot do, India can do even better, and we will open the eyes of the world to what we can do, the team determined. When that sort of spirit comes alive, all impediments melt away.

And the challenges did melt away. After several iterations, the external case, and a watch with the required water resistance up to a depth of 30 metres, was created by the Titan team themselves. The team decided to use a sapphire crystal on the watch, rather than glass, which would get shattered if it were to be ground to such slim dimensions. And then, the team used a technique of all-round fitting on the back cover of the watch, so that it could be easily opened for servicing and battery replacement. Vinay Kamath's excellent book on Titan contains many more interesting details of this challenging product development journey.

In the meanwhile, Michael Foley, the lead appearance parts designer on the project, was working closely with Xerxes Desai to finalise the aesthetic design of the watch. "I was excited by the prospect of creating a watch that was virtually invisible", says Michael, and he adds – "We wanted the watch to celebrate the ultra-slim movement inside, to feel as thin as an edge, and not really a surface."

To celebrate this beautiful design philosophy, the unique watch was named the "Titan Edge". What a perfect name. Not just a watch which looked like the thin edge of something, but a horological marvel which was at the cutting edge of technological excellence.

The entire watch, including the internal movement and external case, was just 3.5 mm. thin, and feather light, at just around 14 grams in weight. The slimmest watch in the universe, and perhaps the lightest watch too. Priced affordably as well, because Titan had manufactured this product at a fraction of what it would have cost to make in Switzerland.

Titan Edge was launched in Bangalore in May, 2002. In the launch advertising, the watch was shown sideways, to emphasise its slimness. Since then, many new designs have been introduced. The Edge has been a huge and enduring success in India, and in several countries

worldwide. Most recently, a ceramic version of Edge has been launched, which is the slimmest ceramic watch in the world. The Edge has also been recognized as one of the finest product innovations to come out of post Independent India.

That's why lakhs of Indians wear the Titan Edge with pride. Not merely because it is so sleek and beautiful. But also because it is a technological marvel made in India, which the entire world envies today.

BGD, the man who had been rebuffed repeatedly by the Swiss earlier, recalls that he wore the Titan Edge to the Basel Watch Fair in a subsequent year. There, he met the grand old man of Swiss watches, Nicholas Hayek Sr., Chairman of the Swatch Group, on the sidelines of a media event. He showed Hayek the Titan Edge watch, with pride. Hayek was struck by the slimness of the watch, he held BGD's hands for a long time, and kept peering at the watch. He had it photographed. And then, he turned around to BGD, and said – "Amazing!".

BGD attributes the outstanding success of the Edge to the wonderful team that came together for this project. And to the leadership of Titan, which ensured that the team worked freely, without any fear of failure.

An Indian Company of the Tata Group, Titan, had delivered what looked impossible, by relentlessly chasing a dream. This was truly "Make in India" at its very best. Technology, design, belief and persistence had come together to create a product which is today ranked amongst the most iconic watches in the world. When we believe, we make it happen.

UVCEIAN IN MEDIA

Infosys's data and analytics business is now $3 billion

Infosys 's data and analytics (DNA) practice, which started five years ago, has grown into a nearly $3 billion service line, employing over 20,000 employees. The revenue is almost a quarter of the company's total business.

Satish HC, EVP and head of global services for DNA, says they realised early on that data had become a new pivot for business transformation. He says the big turning point came when they broke away from the siloed approach to big data, analytics and business intelligence (BI) and brought them under one umbrella. "That proved to be a seminal moment in our journey," he said. Satish declined to talk about the revenue of the business.

"DNA has classic (legacy) and super niches (digital) as part of its portfolio. The latter is growing much faster than legacy. A lot more problems are AI and ML-oriented," Satish said. The interdisciplinary team comprises technologists, design thinkers and liberal arts majors. The idea was to create a cross-functional team of problem finders, while machines turned into 'indefatigable problem-solvers'. A lot of automation is being employed to solve problems, while people are trying to identify more and more client problems that can be solved. The work involves data consulting, data strategising, cloud data engineering, governance, platforms and operations.

A team of specialists called Tiger supports customers through an advisory-led model, co-creating client specific-solutions. The number of people in the squad depends on the nature and magnitude of the problem. "We are reimagining the world around us. The one area we are sharpening is our capability to frame the problem," Satish said.

He said India will be short of data scientists soon. "We are increasingly deploying automation, freeing up the team's time to focus on framing the problem and modelling the problem rather than cleaning data," he said.

- Times of India, 26th Sep 2020

Satish H C is UVCE alumni from 1993 batch ECE. We are thankful to Srikanth sir from the same batch for sharing this information with us.

ENGINEERS DAY

Celebrating Engineer's day this year was very memorable. Given the current pandemic, it was really refreshing interacting with alumni on a virtual platform. We started out with the invites to this online meet that happened on 19th September 2020. We had a good turnout of about 70 alumni from the UVCE Graduates Association who joined the meet. With the agenda set for the day, we started our very first event which was an update on UVCE's autonomous status and we had Naganand sir who is part of UVCE Autonomous Committee, grace the event with his insightful thoughts and briefed everyone on the details and plans in this regard. He along with Dr. B V Jagadeesh presented the initial draft plan covering all aspects involved with the draft plan of UVCE's autonomous status. Following this we had Major General Neelakantappa sir address the gathering informing everyone on the on-goings with UVCE Graduates Association. He announced some of the goals and objectives of UVCEGA and the steps being taken to realize them.

He further invited Srikanth sir from 1993 batch who enlightened us with his wonderful insights that he had gathered in a visual presentation that awed us about sir M V's accomplishments during his time. His talk was truly inspiring and favored how necessary it is to have an association such as UVCEGA that helped build a strong connection among its alumni with the founder and the college. This set the tone for the evening which was followed by Satish from 2009 batch who summarized us on the various initiatives that were newly introduced in UVCE Graduates Association. One of them being "UVCE Chronicles" was launched by UVCEGA Vice President, L Ravi sir from 1976 batch which is the official podcast library for interviews and interactive talks of the alumni of UVCE. We have provided the details in the earlier article.

One another initiative was UVCEGA hubs that were featured as part of the UVCEGA website. The hubs included were for UVCE Entrepreneur's club and higher studies and relevant details pertaining to them were published as part of the website. Towards the end of the meeting, a few mentions on the Sub- committees branched out of the departments were made and the main point of contacts for these committees were introduced. Ending the day on an important point to invite fellow classmates and friends to join and become a member of UVCE Graduates Association, we all bid good bye marking a successful Engineer's Day 2020.

To end the article, here is a glimpse of the postcards sent to the UVCEGA Members for Engineers Day in & around Bangalore. We are glad to collaborate with Shwetha M from 2018 batch for this !

- Meghashree G, 2016

OBITUARY - PRADEEP PADUKONE

Karnataka's Badminton ace Pradeep Padukone, elder brother of Badminton legend Prakash Padukone, passed away in the U.S following a cardiac arrest. He was 67.

Pradeep, like his brother was also a Badminton player having represented Bangalore University as well as the State at the Nationals in the late 60s and 70s. He and Prakash were a formidable pair in doubles and it was a treat watching the two brothers playing at various tournaments. He had completed his engineering at UVCE, Bangalore (1974 Batch graduated from Electrical branch), and opted to focus on his career and moved to the U.S. He was living in San Jose, California. The Padukone Brothers were instrumental in putting Bangalore and Karnataka on the national and international map.

Team SAMPADA prays for his family and may his soul rest in peace!

TEAM: Niranjan, Sanjana (7th Sem), Varsha Bhat(5th Sem), Harsha S, Meghashree G, Satish A G, Chitra S Reddy & SriHarsha D V (VisionUVCE Team)