FXEC RANKINGS AND AWARDS

ARIIA ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS
RANKED "BAND EXCELLENT"

★★★★ **Highest Star Status by the MoE, Govt. of India.** For Innovation and Entrepreneurship Activities

PLATINUM RATING AICTE-CII Industry Linked Technical Institutions

NBA NATIONAL BOARD OF ACCREDITATION

AICTE

Francis Xavier Engineering College is in the forefront in Creating NEXT-GEN ENGINEERS

Dr. Cletus Babu, Chairman, SCAD Group of Institutions distributes the 729 Placement offers received by the Students.

STELLA, I CSE B

Dr. Cletus Babu, Chairman, SCAD Group of Institutions distributing the offer letter to a student.
Flanked by (from the left) Mr. Zahariya Gabriel, Campus Manager, Mr. Krishnakumar, GM (Admin), Dr. K. Jeyakumar, GM(D), Dr. Gnanasaravanan, Dean, Placement, Dr. V. Velmurugan, Principal, Dr. Balaji, Dean, Skill & Training.

The most awaited Jubilant Day (distribution of Offer Letters) was conducted at the Francis Xavier College of Engineering on 6th June 2022. A Total of 729 placement offers received from the multinational companies were distributed to the students by Dr.S.Cletus Babu, Chairman, SCAD Group of Institutions.

Dr. Cletus Babu, in his address, stated that the College is in the forefront in providing in-demand professional skills to make every student get placed and start earning while they learn. The institution creates the best platform to support the students master the professional skills required by the companies. The 20 Applied labs established in the institution make all the difference. The Applied Labs support the students to stand tall with their international counterparts in the field of Cyber Forensics, Mobile App Development, Embedded and IOT, Data Science, Augmented and Virtual Reality, Machine Learning, Robotics and Automation, Programming & Coding, Innovation & Product Development Design, Modelling & Analysis, Architecture and Design, PLC and Industrial Automation, Ideation, Advanced Communication Systems, Advanced Electronics System Design, Next Generation Computing, Electrical Drives and Automation, Manufacturing and Fabrication, Hackathon and Web App Development. The students are allowed to work in these labs and leverage innovation using the advanced technological sources and present their projects in international level contests. Acknowledging the skill of the students' various multinational companies

including Amazon, Zoho, TCS, Qualcomm, Hexaware, Mirafra, Wipro, Rakuten, Kaar Technologies, Atos, Capgemini, Iwave, National Instruments, Infosys, Hashmap, Mydbops, Webberax, Sutherland, Sakthi Auto Components, Renault Nissan,Syrma, Zuci, Vinsinfo, Base Automation, Wabco, Neeyamo, Centizen, Digisailor, Q Max systems, Vicanpro,

Tech Mahindra, Mobius, Vicanpro, Virtusa conducted placement drives during the academic year 2021-2022 and a total of 729 placement offers were received by the students. In addition to this 274 students have started receiving their salary during their final year of study. Further, to have a good Institute-Industry connection, the college has set up Centre of Excellence Laboratories in collaboration with Texas Instruments, Deep learning, CDAC IoT, IBM Cloud computing, Mobile application Development,

Predictive Business Analytics, Hackathon lab, Electronics application Lab, CISCO Networking Lab, Data Science Lab, NI, Robotics and Automation Lab, Fabrication Lab, Modeling Lab, world Skill Lab, Advanced Thermal Analysis / Solar and Amazon web services Lab

The College has been ranked in the Band - "Excellent" Category by ARIIA 2021 - Atal Ranking of Institution on Innovation Achievements, Ministry of Education (MoE), Govt. of

India. The College is awarded 'Platinum Rating' in the AICTE – CII Survey of Industry Linked Technical Institutes 2020. Under the guidance of the MoE's Innovation Cell (MIC), Govt. of India, Francis Xavier Engineering College established Institution's Innovation Council (IIC) in 2018-19 and the college received a 'Four Star' rating (for the Academic year 2020-2021) by the Ministry of Education's

innovation Council (MIC) for having developed innovative scientific and entrepreneurial ideas that can be used in user-friendly hi-tech gadgets. Recently, the college received a grant to start an Incubation centre under MSME Initiatives.

Dr. S Cletus Babu, Chairman, SCAD Group of Institutions, Mr. Arun Babu, Managing Director, SCAD Group of Institutions appreciated

Dr.K.Jeyakumar, GM(D), Mr.S. Krishnakumar, GM (A), Dr.V.Velmurugan, Principal, Dr.A.Ganasaravannan, Dean, Placement, Dr.S.Balaji, Dean, Training and Skill, Dr. L.R.Priya, Professor, Academics, Mr.J.Zahariya Gabriel, Campus Manager, Mr.J David Ayling J, Prof. Image Building and Marketing, the Heads of the Department, all the Professors for the milestones reached with regard to placement activities and wished all the students to have an excellent career path.

Er.G.Simiyon , Asst. Director, MSME Development Institute, Tirunelveli Branch Inaugurates ASME (The American Society of Mechanical Engineers) Students Section @ FXEC

With the great motive in making the student community take the next leap towards the understanding of Mechanical Engineering beyond the classroom and Laboratory learning and navigate through a professional path, ASME Students Section was inaugurated at FXEC on 9th June 2022. Er. Simiyon, Asst. Director, MSME Development Institute was the Chief Guest. He in his address pointed out the Standard that applies to the

industries that promotes safety, reliability, productivity, and efficiency, as these pertains to engineering components and equipments. He stated that ASME supports individuals to find their lifelong professional home where they can impact the world, contribute content, share ideas, participate in communities, and work on projects that improve the human condition. Further, he stated the opportunities for students through MSME to get

transformed into entrepreneurs. The event was organized by the Department of Mechanical Engineering. Dr.R. Samuel Hanson, HOD, MECH shared the vision of ASME. Dr. M.Kannan Asso. Professor, Mech delivered a motivational talk. Dr. V.Velmurugan, Principal, in his talk stated that the students must be curious to innovative new products on their own.. The event was concluded with a vote of thanks by P.Pravin, ASME Section Chairperson, FXEC.

3

FRANCIS XAVIER®
ENGINEERING COLLEGE
AN AUTONOMOUS INSTITUTION
Vannarpettai, Tirunelveli

THE FXEC TIMES
JUNE 09, 2022

Volume:1
Issue No:2

Self-belief and hard work will always earn you success.
- Virat Kohli

Symposia Organized at Francis Xavier Engineering College gains momentum

Department of Artificial Intelligence and Data Science
Department of Computer Science and Business Systems

DEEPA LAKSHMI, II MBA

Symposia organized by FXEC aim at exposing the budding graduates to the recent and upcoming trends in various domains and challenge the young brains to find solutions for technical problems by interacting with tech experts. Further, it serves as a learning platform for the novices, a booster for technocrats and a stepping stone for the young and intellectual minds. Also, it provides opportunities for the students to develop their versatility and charisma in the divergent facet of their growth by creating a platform to exhibit their talents. It also plays a vital role in building the feeling of cooperation and coordination among the students. The numerous events kindles and challenges the innovative young minds.

Department of Artificial Intelligence & Data Science and Department of Computer Science and Business Systems

TECHOLYMPICS'22)

jointly organized the 1st National Level Technical Symposium (TECHOLYMPICS'22) on 26.05.2022 in association with Indian Innovation Council. Mr. Asarudeen, Alumni, Software Engineer at Infosys presided over the function and inaugurated the symposium. In his address, he stated the importance of acquiring skills in emerging technologies and insisted on continuous upgrading of skills to succeed in the career path. A total 224 Students from various

universities and colleges all over India participated in the technical and non technical events. Dr.V.Velmurugan, Principal highlighted the role of Engineers in uplifting the society and honoured the students who won in national level project competitions and sports. Dr.A.Anitha Professor & HOD of AI&DS and Dr. S.Gomathi, Professor & HOD of CSBS distributed prizes. The programme was sponsored by Rotary Club of Tirunelveli and Uniq Technologies pvt ltd.

Mr.Jeya Kumar, General Manager (Development), Mr.Krishna Kumar, General Manager (Admin), SCAD group of institutions appreciated the students for their active involvement in curricular and co-curricular activities. The symposium was coordinated by Ms. Aruna Devi, Asst Prof/AI&DS and Ms. Anitha, Asst.Prof/CSBS.

The symposium organized gave us the opportunity to acquire diverse knowledge in emerging trends and technologies. The projects showcased in expo were impressive and had societal impact. I got a chance to coordinate various events. Organizing such events helped me gain leadership skills and work with a proactive strategy.

M.Jebin, 1st year AI&DS

Department of Information Technology

IGNITE '22

V.KARTHICK (IV-IT)

The Department of Information Technology conducted the 18th National Level Technical Symposium (IGNITE '22) on 24.05.2022. There were 6 technical events and 3 non-technical events. Students from various colleges participated in these events. Mr.Vaidhya (Alumnus 2014), Consultant, Microsoft (AZURE CLOUD), Hyderabad, Telangana,

was the chief guest. The event started with a formal welcome address by Mr. Sankar Ganesh (III-IT), Joint President of IT Department Association, Dr.V.Velmurugan, Principal, FXEC delivered the keynote address .The Department Magazine and Inaugural video was released by the chief guest.
Mr.V.Karthick (IV-IT) , President of IT Department Association delivered the Annual Report and Ms.

Nivedhitha (II-IT), Treasurer of IT Department Association introduced the chief guest to the audience. The chief guest Mr.Vaidhya, in his address talked on the expertise he gained in the IT industry and motivated the students to gain the required skills to stand on par with their international counterparts. Further, he talked about the scope of the IT Engineers in various sectors including Azure, and other multinational companies in India.

In the events conducted, students from various colleges across Tamil Nadu participated. The department owes its gratitude to Dr. K. Jeyakumar, GM(D), SCAD Group of Institutions. Mr.Krishna-Kumar, GM (Admin) SCAD Group of Institutions, and Dr.V.Vel-murugan, Principal, for the guidance towards the conduct of the event and for honoring the achievers of the event.

Ms.Karthika (I-IT) delivered the vote of thanks. The event was presided by Dr.J.B.Shajilin Loret, Asso. Prof. and Head of Department of Information Technology and was coordinated by Ms.T.Nancy Lydia, AP/IT, and Mr.J.Josiah Samuel Raj, AP/IT

The Symposium helped me to know about the latest development. Further, being the President of the association, the event helped me to realize the leadership skills in me and work as a team.

V.KARTHICK (IV-IT)

INDUSTRIAL VISITS

The first year and third year students of Information Technology Department at M-Squared Phase- 1 Technopark campus, Kazhakoottam.

APPRECIATION DAY

Department of Electrical and Electronics Engineering Organized Appreciation Day. The Achievers of the Department were honoured by Mr. Krishnakumar General Manager (Admin).The Event was organized by Dr.J.Jasper Gnana Chandran, HoD Department of EEE.

Department of Electrical and Electronics Engineering

VOLTZ FEST– 2022

Mr.G.VeeraSamy, Deputy General Manager, BSNL, Tirunelveli & Tenkasi addressing the students

DEEPA LAKSHMI, I MBA

Department of EEE Organized **VOLTZ FEST - 2022** a National Level Technical Symposium on 19.05.2022. The Symposium supported the students to share their expertise and showcase their talents. Paper presentations and other technical events were conducted Dr.J.Jasper Gnana Chandran HoD /EEE welcomed all the dignitaries. Dr.V.Velmurugan, Principal FXEC gave the presidential address. Mr.G.Veera Samy, Deputy General Manager, BSNL, Tirunelveli & Tenkasi was the chief Guest. In his address, he

talked on the challenges and opportunities in Public Sector Units. 25 Papers were presented by the students from the college and students from various reputed Institutions. Also, the students actively participated in the other events Technical Quiz, Connexion and Circuit Debugging. The Symposium was coordinated by Mr.S.Selvakumar AP/ EEE and Mrs. R.Aandal AP/EEE.

RESHMA THUSNEEM. M IV EEE

The Chief Guest's address was very informative. we gained insights on getting placed in Public Sector Units (PSU), and cracking GATE with ease.

NAMBI NATCHIAR. R
The talk by experts helped us know more about the Industry Standards..

Department of Master of Computer Application

12th National Level Technical Symposium

DAWN

BRINDHA SUGIRTHA MANI J I MCA

The DAWN Association was inaugurated by Mr. Venkatesh. R (Alumni 2016 batch), System Engineer, Tata Consultancy Services, Chennai. Ms. F. Mary Jessica of the Final year MCA welcomed the gathering. Ms. Brindha Sugirtha Mani J of First year MCA, introduced the chief guest to the audience. Dr. V. Velmurugan, Principal presided over the function and delivered the presidential address, and honored the chief guest

with a memento. The Achievements of the DAWN'21 were presented by Mr. Muthukumar C, the Secretary of the DAWN Association. He highlighted the details of the guest lectures, training, conference, FDP, placement specific training carried out in the Department of Computer Applications. Office bearers of the DAWN Association were introduced by Mrs. D. Angeline Ranjithamani, AP & HOD, MCA. The chief guest in his address highlighted the various

placement opportunities for MCA graduates and shared his expertise. . P Veerapandi P delivered the vote of thanks.

Nearly 300+ students from 10+ Arts & Science colleges and Engineering Colleges participated in Technical Events (Poster presentation, Quiz, Software Marketing, Debugging, Web Design) and Non-Technical Events (Mehandi, Photography, Art from Waste and As you like it).The overall trophy was won by the students of

Sarah Tucker College, Tirunelveli and runner trophy was won by Sadakathullah Appa College, Tirunelveli.

K. Aathi Vignesh, II MCA
We gained valuable resource of ideas, the best practices in the Industry, insights and contacts that are essential in order to grow in our Career Path.

3

FRANCIS XAVIER
ENGINEERING COLLEGE
AN AUTONOMOUS INSTITUTION
Vannarpettai, Tirunelveli

THE FXEC TIMES
JUNE 09, 2022

Volume:1
Issue No:2

"Scientist dream about doing great things. Engineers do them." - James A. Michener

Janani R P (III ECE) - Embedded & IoT Applied Lab
Renuka K (III EEE) - Robotics and Automation Lab

Industrial Applied Lab Students win Laurels
Embedded and IOT Applied Lab

STORY NARRATION CONTEST

With a motto to create a flare for reading among the students, the Readers Club of FXEC in association with the NDLI Club organized a "Story Narration Contest" for all the department students on 31stMay 2022. 110 students participated in the competition. An array of story narration videos were submitted by the students and their stories were analyzed for rewarding. Ms. Vethanbu Libertin Christiana (IVECEB) won the First Prize, Mr. A. Sunil Raja (III CSE B) won the Second Prize and Mr. K. Murugan Nagarajan (III CSE B) won the Third Prize. We owe a big thanks to all the participants and winners. The event was coordinated by Mrs. P. Anishya, Asst. Professor / CSE and Mr. T. Prabu, Librarian.

Gladson Joel Raja J, Sam Charles J, Donal A of I year ECE Participated in the event "**ELECTROSPITZER 2022**" held at Regional Campus Anna University, Tirunelveli on 05.05.2022 and won the SECOND PRIZE.

Donal, Gladson Joel Raj, Gausik participated in the Project Expo "**ELECXY 2022**" Organized by University VOC College of Engineering, Anna University Regional Campus, Tuticorin on 11.05.2022 and won the SECOND PRIZE.

Muthuraman, Gokulakannan and Acsha Jesubatham, won the 2nd prize in fast Line follower Robot contest - "**INTECHNO 22**", held at Anna University, MIT Campus, Chennai.

Zakariya, Siddharth and Sofia of Embedded and IoT Applied Lab participated in Project Display Contest - "**INTECHNO 22**" held at Anna University, MIT Campus, Chennai and won the Won 2nd Prize.

Trainings Organized

- GATE Training
- Cramer's Rule & Eigen Values
- Pattern Printing, Ratio & Proportions
- Maxima & Minima

Faculty Initiative Trainings

- Responsive Web Design Certification
- Electrical CAD
- Project Scheduling using MS Project
- Hands On IoT Microcontroller using ESP 8266
- Language Training (Hindi - Spoken)
- Placement Fit Training
- Resume Based Interview

- Full Stack & Java Series-2 for the First Year Students

Robotics and Automation Applied Lab Students win the First Place

The Members of the Robotics and Automation Appled Lab Prakash Raj. S and Muthu Vigneshwaran.D participated and won FIRST prize in a paper presentation Contest conducted at ANNA UNIVERSITY REGIONAL CAMPUS, TIRUNELVELI on 27.05.2022 under the guidance of Dr. A Ravi Prof.EEE.

Design and Analysis Applied Lab

The students of the "Design and Analysis" Applied Lab Mr. R.kodeeswaran, Mr. M.Karthick, and Mr. M.Essaki from III year Mech won the first prize, and T.Abraham Jebaamani Raj (III Mech A), Selva Kumar (I Mech B), and Dani Jebaz won the second place in the Techno Heist Event.

Elite Trippy Explorers of Ideation Lab win a cash award of Rs 5000.

Ideation Lab

Elite Trippy Explorers team of Ideation lab won the II Prize with a cash award of Rs.5000 in the IEEE IMS National Level Project Competition organized by Vishwakarma Institute of Technology (VIT), Pune. The team was guided by Dr. Subbulakshmi, Professor, Dept of IT.

The Project was developed by Arun Prabhakar G - III IT, Harries Pandi P - I CSBS, Aishwarya S - I MCA, Isaac John Brighton - I IT, Venkatesh Babu V J - III IT, and Suhail M - II Mech

---

Manuscript Editors

DEEPA LAKSHMI, II MBA

STELLA D I CSE B

PAGE DESIGN

GODWIN SANCHO W
TITUS KOPI R

I B.TECH ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

4

FRANCIS XAVIER
ENGINEERING COLLEGE
AN AUTONOMOUS INSTITUTION
Vannarpettai, Tirunelveli

ARTICLES

THE FXEC TIMES
JUNE 09, 2022

Do you know how big your footprint is?

You leave footprints when you walk in the sand, mud and when you've got wet feet, but you also leave something called a carbon footprint.

A carbon footprint is like a mark you leave in the environment, every action that releases carbons . Carbon is the harmful gases like co2, that are pumped up by burning fossil fuels like oil or gas. How many of you have a cell phone ? Did you know that if you talk on the phone for one hour each day that you're emitting the same amount of carbon it takes for flying from New York to London? How many of you like cheeseburgers or hamburgers? Did you know that America is the biggest beef producers. We use 39 percent of the world's room for livestock then you have caused a big carbon footprint and that's pretty bad.

Even your small daily choices contribute to your carbon footprint like brushing your teeth and your brushing utensils have a history in a factory. Carbon is everywhere in he ecosystem and it's always moving, some of its floating around in the atmosphere. Plants store the carbon in their bodies and when an animal eats the plant they're having a carbon snack.

Lowering your carbon footprint is very easy, it's lots of little things that we can do to stomp out carbon footprints.

Think about what you have plugged in like your gaming systems, cell phones, computers, TVs etc .Did you know that using a laptop takes 80% less the energy than a desktop?

Change the way you use water. Take showers not but baths. Move more, take the stairs not elevators. Walk more. Watch less TV. Reduce playing video games. Did you know kids don't go outside anymore because they're so attached to their video games which makes them unhealthy and increases their carbon footprint. We all need to learn about the impact we're making on the earth let's stomp out carbon footprints !

Sumithra .M - III B.E CSE
Recent Achievements of the writer
- **INTELLIGENT DEVICE FOR THE SAFE TRAVEL TO PREVENT ACCIDENTS AND PROVIDE ROUTE FINDER APPLICATION USING APPLICATION PROGRAMMING INTERFACE (API) Indian Patent Publication, February 18, 2022, IPR No: 202241006004**
- *Ongoing Internship (4months) - Technical Lead at SpaceZee Technologies Pvt.Ltd., Chennai*
- *Won Second Prize and Cash Rewards in Shark Tank - Elevator Pitch-In, TECHNICAL SYMPOSIUM-TECHNOZARRE 2022 (SRM INSTITUTE OF SCIENCE AND TECHNOLOGY,VADAPALANI CAMPUS)*
- *Won First Prize and Cash Rewards in Project Contest on Augmented Reality organized by Hackwit TechnologiesPvt.Ltd., Bangalore*

What precisely is block chain?

Technology is the best when it brings people together. The blockchain era is particularly famous nowadays. What precisely is blockchain? Blockchain is a system that records information in a way that makes it difficult or even impossible to change, cheat or hack the system. It is a digital ledger that is completely open to anyone. Simply, like the name indicates "blockchain is a chain of blocks which stores information". Each block has three-part - the data part , the hash part, and the hash of previous the block. Data is nothing but the information which is stored, hash we can compare it to a fingerprint. Whenever a block is created the hash is calculated. This effectively creates a chain of blocks and this technique makes the blockchain which is so secure. So how does this work, let's say if we tamper with a single block the hash becomes invalid similarly the following block becomes invalid because it no longer stores a valid hash of the previous block. So changing a single block will make the whole bock chain invalid. But using a hash is not enough to prevent tampering because computers these days are very fast and can calculate hundreds and thousands of hashes per second. So we can effectively tamper with a block and recalculate the hashes and make the blockchain invalid again. So to mitigate this blockchain has something called a proof of work mechanism. This mechanism slows down the creation of the new block. The security of blockchain comes from its creative use of hashing and proof of work mechanisms. There's one more way blockchain uses to secure themselves and that is being distributed. Instead of using a single entity blockchain uses a peer-to-peer network that allows anyone to join. The creation of blockchain peeked people's interests and one of the recent development of blockchain is smart contracts. In short, blockchain is originally intended to timestamp digital documents so that it is not possible to backdate them.

Sasi Keerthana.M
III B.E CSE
About the writer
- **INTELLIGENT DEVICE FOR THE SAFE TRAVEL TO PREVENT ACCIDENTS AND PROVIDE ROUTE FINDER APPLICATION USING APPLICATION PROGRAMMING INTERFACE (API) Indian Patent Publication, February 18, 2022, IPR No: 202241006004**
- *Academic topper in Anna University Theory Examination during the year 2018 -19 (Even) and End semester examination 2019 - 20 (Odd)*
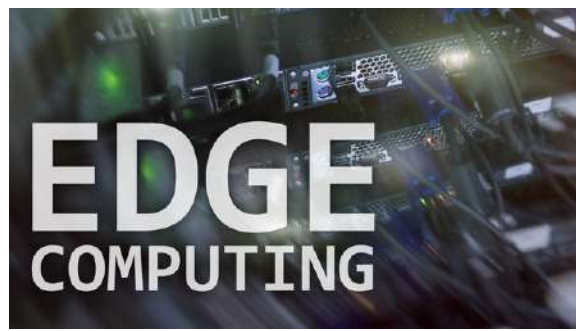
Edge computing is what it sounds like:

Computing that takes place at the edge of corporate networks, with "the edge" being defined as the place where end devices access the rest of the network - things like phones, laptops, and sensors. An edge is a place where these devices are connected so that they could deliver data and receive instructions and download software updates from a centrally located data center or the cloud.

With the explosion of the Internet of Things, edge computing has also flourished. IoT devices gather so much data that the sheer volume requires larger and more expensive prevalent. connections to data centers and the cloud. The nature of the work performed by these IoT devices are also creating a need for much faster connections between the data center or cloud and the devices. For example, temperature and humidity sensors in agricultural fields gather valuable data, but that data doesn't have to be analyzed or stored in real-time.

The upside of edge computing is faster response time and the downside can be security. With data being collected and analyzed at the edge, it's important to include security for the lot devices that connect to the edge devices and for the edge devices themselves. Network architects need to build in redundancy and provide fail-over contingencies to avoid crippling downtime if a primary node goes down. The industry has already gone a long way toward addressing the demands of edge computing, and it is becoming mainstream. Its importance is likely to grow even more as the use of real-time applications becomes more prevalent.

-Madhumitha Murali
III CSE

- *Published a Journal Article on "Machine Learning based efficient and secured car parking system"*
- *Won the First Place in the Project Expo held at National Engineering college - for the project "Vehicle accident alert system"*

Intel i3,i5,i7; What's the Difference?

The significant difference between i3,i5 and i7 processor is that i3 processor have dual core and i5&i7 processors have quad core . In terms of usage , i3 is more sufficient for a casual user who surfs the internet , plays a few games and checks mail . Whereas with i5 is enough for all those listed above and also for playing high end games . i7 outweighs both i3 and i5 processors. With regard to cost , the i3 is a dual core processor with hyperthreading in it which allows the user to act like a quad core and is comparitively the cheapest processor . Whereas i5 is a mid-range processor and are the quad core processors which usually costs around 180 - 220 dollars . This is considered one of the best processors for a budget gamer . And i3 are hyperthreaded processors with more than 4 cores and are commonly used by people doing CPU demanding tasks which costs around 300 to 1000 dollars .

To explain better I've got an example with cars . i3 processors are like budget friendly cars for instance wagonr , Alto etc .. these cars comes with the weakest engines but they also provide most mileage for the same fuel amount . They come under the cheapest section and are best suited for travelling daily for nearby places only but not for long drives or to carry heavy load . Similarly i3 processors are the weakest, they're the most battery friendly and are suitable for doing simpler tasks only like web surfing , MS Office etc..

Whereas i5 processors are like mid-range cars like Skoda rapid , Honda City etc ..These cars are almost double to quadruple in price as compared to mini cars. They can be used inside the city as well as for long rides easily. Similarly i5 processors are very good processors for most of the things. They're more powerful but less are less battery friendly. They're more than enough for any home or office usage.
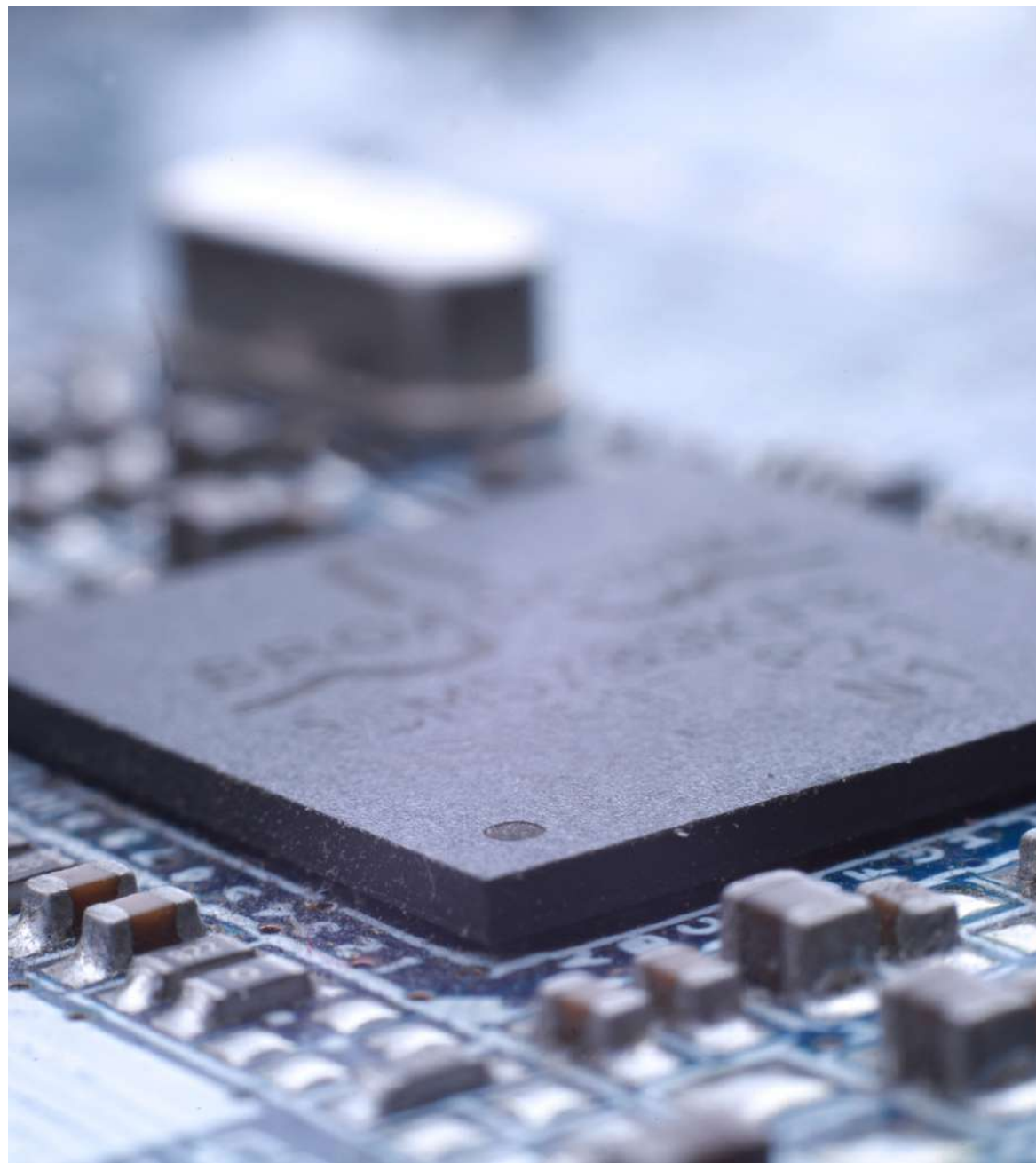
And i7 processors are like the luxury cars or high performance cars like Lamborghini,bmw,audi,etc thus they're like creamy layer among all the non-server processors. They're costliest. They're most powerful. They can support any rig to its full potential.

Recent Achievements of the writer
- *Won the First Place in the Project Expo held at National Engineering college - for the project "Vehicle accident alert system"*
- *Won the 3rd prize in UI/UX Designing competition at DJCSI , Mumbai*

Ministry of Defence acquires government's first quantum computer

Quantum computers can make very complex calculations extremely quickly and their creators say they can solve the problems regular computers cannot. The MoD will work with British company Orca Computing to explore applications for quantum technology in defence. Stephen Till, of the MoD's Defence Science and Technology Laboratory (DSTL), called it a "milestone moment".
The computers found in most of our homes and workplaces process data in bits, which have a binary value of either zero or one. Quantum computers instead use a two-state unit for data processing called a qubit. This can represent digits like one or zero simultaneously through a quantum mechanical process called superposition, letting quantum computers bridge binary digits and cope with uncertainty where regular computers cannot. Quantum computing experts and physicists say this means that the problems combed over by average computers for years could be solved in a matter of minutes. Prof Winfried Hensinger, head of the Sussex Centre for Quantum Technologies at University of Sussex, says the true potential of quantum computers will take time to fully materialise. "They can't actually solve any any practical problems yet. They're enabling you to maybe gauge the possibilities of what working on a quantum computer would have if you can scale this machine to really large system sizes." But he adds the promise of quantum computing, and the MoD's exploration of it, is still significant.