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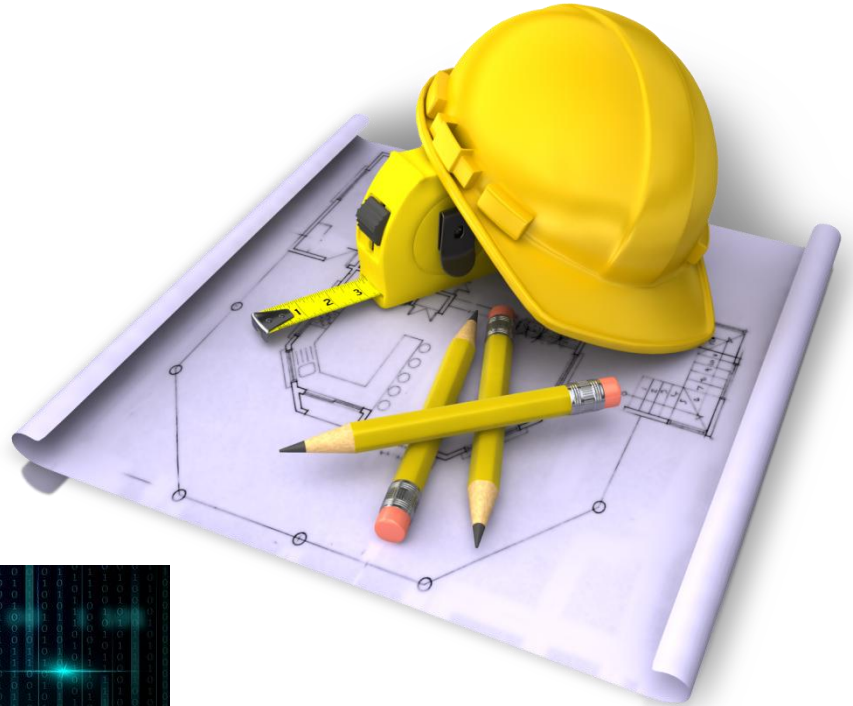
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Edition**

ALL ABOUT ENGINEERS' PROBLEM

JOURNEY TO THE SPACE SECTOR

CRACKING THE CODE

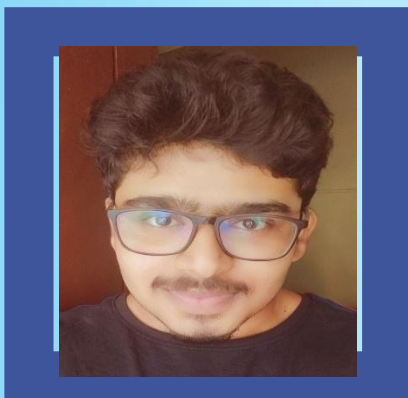
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Do you believe! that engineers perform the craziest things? Do you know the interesting and fun facts about engineers? Engineers' national attire is tee-shirts and jeans; Maggi is their national food. People are prone to fixing things that are broken, but engineers would break things before fixing them. An engineer can generate any relation if you give him or her the final expression.



Quite funny! Right? India has one of the highest levels of engineering production in the world, graduating more than 15 lakh (1,500,000) engineers each year. Hence, without any second thought, getting a job is a highly competitive process. The word engineer has its root in the word engine which comes from the Latin word "INGENIUM" which means "Innate quality, particularly of mental power".



SURESHKUMAR M

II – ECE

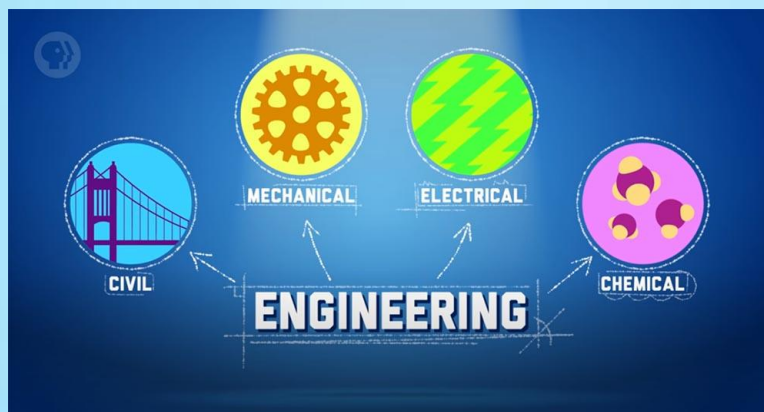
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Engineers use scientific knowledge of the natural world to solve problems, design and build things to attain practical goals. The simplified version to define engineering is “creation and destruction”

The one such chucklesome question is “why do engineers hate engineering?” Here are the answers,

The most fundamental answer is that opted field or course is not from the favourite list.

- Oftentimes, there are expectations from freshers to learn engineering in various methodologies, but expectations aren't always met.
- Real-time conceptualization is the essence of engineering. Few engineers never glimpsed academic concepts in a simple way.
- Proceeding with studies to finish a degree rather than developing, and innovating new products or services.
- Made a mental note of the statement "if you studied engineering, you wouldn't be able to get a job".
- Human thought process: bad Implications on present action or performance by thinking about (frightened) future engineering careers.



These are the basic problems of an engineer. **The only way to push ahead of your obstacles is to move ahead.** As a matter of fact, haters are getting more furious and more vocal every day about roasting engineers' life and degree. So, never permit yourself to become convinced by the emotions you experience in the field of engineering.

The main reason people hate engineering is believing in all kinds of misapprehensions about it, which cause negative impacts on the lives of young people. Psychologically, our frame of mind will play and convince us to give up by hearing those demotivating essences. Hence, **be a difference and make a difference by making a history that engineering never fails to prove that impossible is possible.**



Engineers should focus on implementation rather than focusing on marks. Learning the application of technology is the best method to develop engineering skills. Though the theory is important, engineers should focus on finding a platform through which they will be able to gain a deeper understanding of technology through a few specific projects. Engineering degrees are merely a stepping stone to a career.



Engineering is about facing, handling, managing, and working on various scenarios with a good outcome, which is not taught during the degree program. Conceptualizing and mapping memory is the utmost skill to build yourself. Think of everything you learn and apply whatever you learn in a practical context. Visualize each concept and take an interest in whatever you learn.

The majority of engineering students study superficially only to gain employment; however, they fail to realize that only the basic curriculum they learn will allow them to find employment.

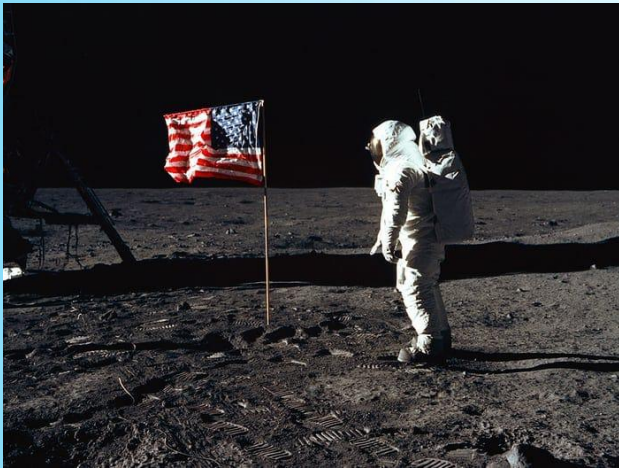
There exists a simple formula in engineering to make changes by your creation (From any domain)

“Study + Visualize + Apply + Make mistakes + Learn + Implement + Innovate = Creation.”

A white rectangular graphic with the text 'Mistakes HELP US GROW' centered on it. 'Mistakes' is in a large, black, cursive font. 'HELP US' is in a smaller, black, all-caps sans-serif font. 'GROW' is in a large, black, cursive font, matching the style of 'Mistakes'.

Human Exploration

On April 12, 1961, the Soviets demonstrated that man can explore beyond the skies when the first man, Yuri Gagarin, launched into space aboard the Vostok 1 spacecraft. Every manned mission since then has been a source of pride for us, ushering in a new era of space exploration.. Let's go deep...



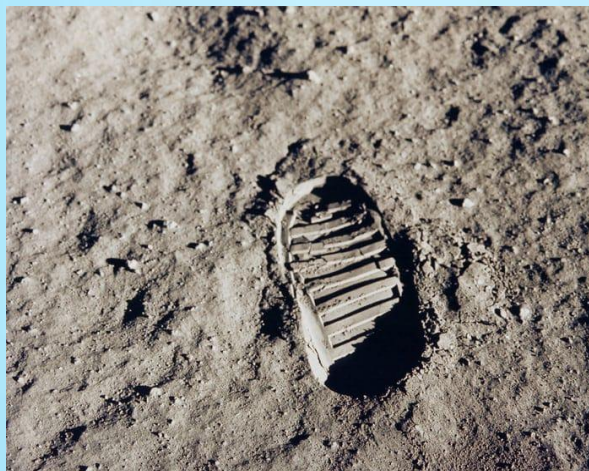
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Years back, Space Explorations were carried out only by governments for research and pride. Apollo-11's first step on the moon in 1969 remains a tremendous historical milestone in human history. Due to political and economic concerns, human space exploration has been limited to Low Earth Orbit following the six moon landings.

For the past 20 years, the International Space Station has been the only platform for permanent human settlement in space, thanks to the collaboration of 5 space agencies* and 18 countries. It will be extended until 2025.

So, What's next?

Space Tourism and Moon & Mars colonization will be the next step towards human exploration in Space. Private companies will play the major role in the above mentioned mission. Until now, only eight paid tourists have visited the International Space Station (ISS), but this number is expected to skyrocket over the next decade (i.e.,2021).



Space tourism is classified into three:

Lunar flyby, LEO, and suborbital, where suborbital is less expensive than the other two. Blue Origin and Virgin Galactic are well-known for suborbital tourism, while SpaceX is well-known for orbital and lunar flyby missions.

JOURNEY TO THE SPACE SECTOR

SpaceX aims to land Humans on Mars by 2026. After the ISS retires, Axiom Space, a private company, will be the ISS's successor by 2025, with their own modular space station for space tourism and research. Space tourism will have a significant economic impact on the space sector.

China (CNSA- China National Space Administration) started their own space station construction in 2021 which will be completed by 2022.

In this regard, our country is not an outlier. The ambitious mission of sending three Indians to Low Earth Orbit is in the works, with a target completion date of 2022. And it's called Gaganyaan. India also intends to construct its own Space Station by the end of this decade

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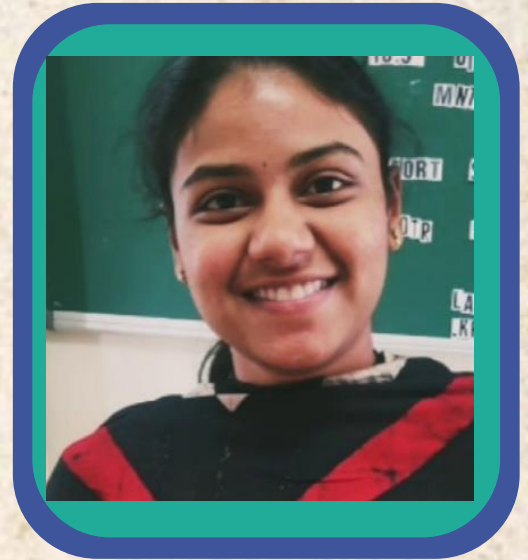
The next milestone in human exploration will be the landing of the next man and the first women on the moon's surface by the end of this decade. Along with the international collaboration, NASA is working on Artemis Program. This initiative will expedite moon colonisation and commercialization, which will be followed by other countries.

Coding: The Magic Bullet?

D.Arunima

IV year - B. Tech IT

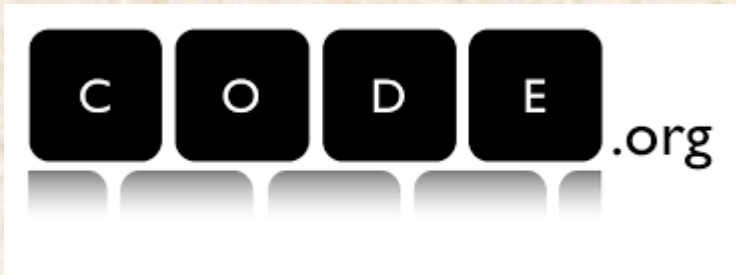
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In recent years, coding has become a buzzword in discussions about closing the gender gap in computer science. Organizations such as Code.org, Girls Who Code, CodeHS and Codecademy offer courses and camps which are ideal specifically for the girl who's already pouring over lines of code—or wishes she could. Given the term's popularity, Pat Yongpradit, Code.org's chief academic officer, says it's not surprising that many people assume that equitable computer science education is all about the code.

However, he claims that this is not the case, at least for Code.org. "They believe we're attempting to create more... Professional coders, programmers at Google and Microsoft... and that is simply untrue." Instead, Yongpradit and his colleagues at Code.org hope to create a "citizenry" capable of applying computer science literacy to a broad range of professional pursuits.

Adriane Bradberry, communications director at the National Center for Women & Information Technology, believes that this holistic approach is the most effective to engage young women. She believes that there is nothing wrong with coding, especially for girls who already know they aspire to earn programming career, but she warns against focusing too heavily on one aspect of computer science education.



“Solving this problem of underrepresentation doesn’t come from looking at one particular part [of computer science diversity issues] at one particular time,” she says. “It’s an ongoing process that everyone should keep in mind at all times.” That’s how we’ll start to increase women’s meaningful participation”.

Another reason to avoid focusing solely on coding is that women are underrepresented across the board, not just in programming jobs but their numbers are also low across the entire field. According to Bradberry, this occurs due to the fact that girls may not have had the opportunity to discover how their interests align with various computer science careers.

Exposing girls to computer science at a young age is the most effective way to provide these opportunities. Because the majority of K-12 computer science classes, workshops, and afterschool programmes are electives, recruiting is paramount.



“Writing code is a valuable skill. But should computer science have a place in classroom?”

It is not surprising that we live in a digital age. Most children are connected to some form of technology, whether at home or in the classroom; do students need to know how to create that technology in order to be prepared for college and the workforce?

Yes, according to computer experts. They claim that by 2020, U.S. universities will not be able to fill even a third of the country’s 1.4 million computing jobs.

“Learning how new technology works and how you can harness it are as important as reading and writing”. SринiMandyam told TFK. He is a cofounder of Tynker, a company that creates programs to teach kids/students how to write code, or the instructions that informs a computer what to do.

“Technology is a way for students to understand something they use every day,” Mandyam says.

Getting into Schools/Colleges

Every app, game, and computer program starts with a code.

“Coding is the act of creating technology rather than just using it,” says HadiPartovi. He is a cofounder of the non-profit site Code.org, which was started last year.

According to the College Board and the Computer Teachers Association, only one out of 10 schools in the United States offers computer-science classes. Code.org aims to change that so every student in every school has the opportunity to learn computer programming.

The group wants U.S schools to follow the lead of China, Vietnam, and Britain, which offer coding classes as early as elementary school.

As a way to introduce coding into schools, Code.org created a campaign “YOU OWN IT”, providing students with up-to-date devices can be costly. This is one of the reasons why some schools are implementing BYOD, or bring-your-own-device, programmes. Students are encouraged to use their own smartphones, tablets, and computers in class. BYOD, according to school administrators, increases student access to technology and allows more students to conduct hands-on research in class. MCET has a BYOD lab where students can hone their coding skills and prepare to explore it on the go.

கனவில் கனா

பெரும்பாலும் தூங்கா இரவுகளில்
திடுதிப்பென்ற ஒரு விழிப்பு
தேவைப்படுவதே இல்லை
வெறித்த விழிகள் எப்போதும்
சுழலும் மின்விசிறியைத்தானே
பார்த்துக்கொண்டிருக்கிறது
சிறு மாற்றத்திற்காக சாளரத்தை
திறந்து வெளியே பார்த்தேன்,
வானெங்கும் 'வான்காவின்' ஓவியமாக
பெரும் திரை
தலைக்கு மேல் அலையன மிதக்கும்
மேகமும்



"ஆஆ காட்டு" என்று அம்மா காட்டிய
அதே நிலவும், ஒளிரும் நட்சத்திரங்களும்,
தூர உலகமாய் மலைமுகடுகள் ஓர்
அதிசய வெளி...

கற்பனையிலும், கனவிலும் காணும்
வெளியெங்கே நினைவில் சாத்தியம் என
எண்ணிக்கொண்டிருக்கும் வேளை
சட்டென்று ஒரு விழிப்புத்தட்டியது
இது கனவாகத்தான் இருக்கும் போல...

ரா. ஸ்ரீ விஷ்ணு
இரண்டாம் ஆண்டு ECE

Heights of Glory



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