

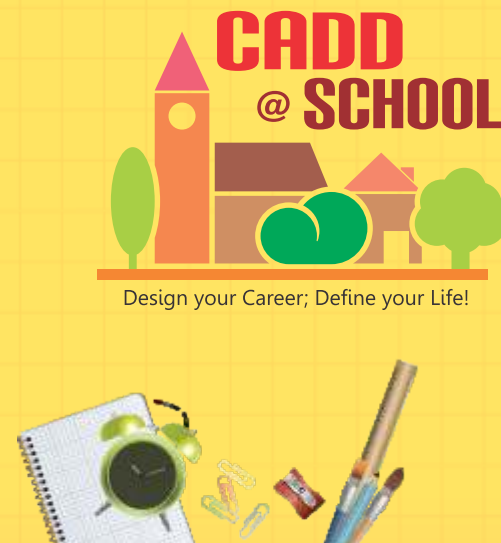
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CADD@School is a unique program specially designed to equip high school students to think analytically and express ideas visually.

This program is aimed at providing software skills and soft skills to the age group of 12 to 17. Software like Blender 3D, Flash, Corel Draw and Dreamweaver are offered to students of the 7th 8th, 9th and 11th Standards, which kindles, nourishes and develops the creativity inherent in them. The students of 11th standard also get to acquire a group specific skill - AutoCAD and Tally for the Maths and Commerce group respectively. Other value additions like Personality development and 5S offered can be merged with the other programs based on time schedule of the school.

The knowledge acquired facilitates the use of both right & left brain thus leading to Balanced Brain Development in the student.



For more details please write to km.venkataraman@caddcentre.ws or visit www.caddatschool.com



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CADD @ School



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The shifting trends and curves of the ever innovative AEC Industry

The AEC industry has experienced a major shift in terms of innovation and transition. With every year expected to be a step ahead of the previous one, the shift of trends seems to follow one another with the implications of new technology and new integration. As observed the AEC industry with relevance to its heartbeat CAD has experienced a building of social good getting transformed from thoughtful conversations and unique imaginative ideas, to the robust development of industries and an increase in their standards.

The standards of the AEC industries are all set to increase with the cost of technological advances considerably driving down. A long term process is what the industry is focusing on in order to initiate a long term business and work towards building a more specific goal oriented purpose in reference to added focus on designing and building.

We also witnessed in these past years that how with the development of technology, the real estate developers have already enjoyed privilege in terms of the initial construction cost as they experienced various benefits arriving due to the advancements that came along with the shift of trends in the AEC industry.

Now there has been something worth considerable in terms of development factors where the building for social good has been a subject to a massive growth which showcases the progress of understanding among individuals and not just the AEC. This understanding is set to

grow further and will aid the plans for future as the next five to ten years are basically going to be purely empathized on the technology and the workflow where the feel good benefits will be hard to resist.

Along with the AEC, the unmanned Aerial Vehicles are expected to grow exponentially with the devices nowadays are becoming more than efficient and capable of carrying out the specified oriented task because of their small size and their less expensive rates. It is capturing the existing conditions which are one of the most difficult and costly aspects during the process of getting a project completed.

With the increase in time and an increase in optimization and specialization, the use of Reality Capture and UAV's are expected to develop more and improve greatly as these companies are expected to deliver a high level of accuracy at a very low cost in terms of conducting the mass data, a task which they are empowered to carry out.





For the AEC community, one thing for sure is going to become the hot ticket and that's the Virtual and augmented reality. The real estate owners and the managers of property have now started to request for the structure design or being more specific the building design before it is built. They now have realized that how they would experience the environment and landscape with the help of the unique virtual and augmented reality.



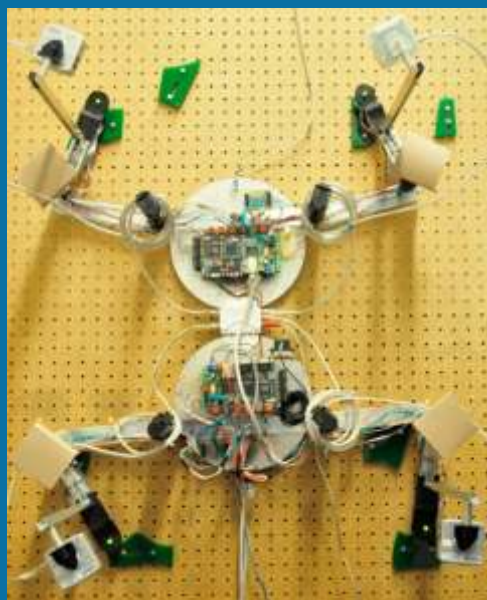
The world is harnessing the terms innovation and experimentation to the core and as a result of it, we already have something very compelling with us, which in today's time can provide us with a realistic 360-degree of a project. This already has been proven out to be a major boost for those AEC professionals who can engage their senses and interact within a model and then emphasize and stress their mind on how to make better design decisions during the planning process – before the start of construction.



The world with its diversity in terms of education is getting competitive day-by-day. The level of education has risen. There is a need of exploration, need to discover something new. It is something which not many are capable of as well as something which not many are fond of. The exploration here means none other than the world of Robotics.

If you are an aspiring student who has Mathematics as his strength and you are pretty much interested in dealing with construction, designing and operation then at first place I would say that you have that engineer configuration in you.

Engineering over here is not a mechanical /



How Super - humans are increasingly inclined towards the Robotics Engineering

electrical engineering or computer science but in turn the branch of these engineering called as Robotics. Even if you don't have the features mentioned above, you shall gain knowledge once you opt in, but remember Mathematics is the prerequisite.

Students with the changing trends are more inclined towards technical studies than the management ones. That's not just because it will provide them with a great salary package or it would help them to establish themselves easily, but the fact that the technical studies nowadays are very creative. With the usage of leading design software such as Revit and 3DMax which are used in Construction Engineering which not only makes the process creative but rather much more explorative.

Importance of CAD in Robotic Engineering

One of the most important factors which will play a pivotal role in the imaginative and creative development of students is the one which would take place with the help of CAD. It is through 3D CAD that the students actually be able to simulate the capabilities of a robot with the help of a review. CAD helps the students to broaden their perspective by providing them various opportunities for effective and creative design which would mostly take place in either 2D or 3D. Thus it's important for an aspiring student to get his hands on the CAD and master the art of 2D and 3D designing.

What does Robotics Engineering consists of? Robotics Engineering basically is a blend of technical studies and creative desires which includes design, operation, construction, application of robots, controlling them with the computer system, sensory feedback as well as information processing to get the desired results.

Robotics aims at dealing with the machines which are automated that can replace humans in the treacherous environment and manufacturing process.

Why students have a craze for Robotics Engineering?

They are inspired by Steven Spielberg, or maybe one of those who are a huge fan of Iron Man or the Avengers, etc. Yes, the reason that you can be the next Tony Stark is what amuses many of the aspiring candidates as they are to learn about how to develop and construct robotic devices which can be used for a variety of manufacturing, commercial and security purpose.

Stages of Robotics Engineering:

- ❖ Undergraduate programs
- ❖ Graduate degree programs
- ❖ Master level programs

Both the programs are blended with the elements of electrical engineering, mechanical engineering and computer science. Students in today's time have a strong hold on Mathematics and Science, one of the few subjects where one can score out of. It is their creative and technical approach towards these two subjects that shapes up the future of the student, whose creation is inception when he/she is just in 8th Grade.

In today's time, people are in awe with the engineers and one thing that encourages talented and visionary students are that they know that engineering stands tall against any other stream. The normal people actually see the engineers as the "super-humans", who



can build robots, rockets, vehicles etc. and there is an ample of job opportunities that are waiting for you, once you are done.

The following are the job opportunity and perhaps the reason why students are inclined towards Robotics engineering:

- ❖ You can work as a laboratory assistant
- ❖ You can also work as Robotics testing assistant
- ❖ You can become a Robotics programmer
- ❖ You can work as Robotics systems controller
- ❖ You can work as Robotics quality assurance technician

How do I make it to the Robotics Engineering?

While the students are in their degree program, they are made to focus deeply on

the engineering theories, mathematical foundations and practical implementation as well as testing of robotic device along with substantial lab work. So first prerequisite is that you have to take-up the Science stream, then opt for any of those three courses in engineering and once you are familiar with robotics, you simply have an idea that whether you want to make it your career or not.

Robotics engineering does not just offer a bachelor's program but also a Master's program which comprises of final robotics projects and few theses. Graduate degree programs in robotics engineering are far more prevalent than undergraduate degree programs and all those aspiring students who hold a bachelor's degree in engineering or computer science and particularly those interested in creating and designing robotic systems, robotics engineering is surely made for you.

