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Siemens NX
A Smart Choice for Product Innovation

Siemens NX, formerly known as NX Unigraphics, is an end-to-end engineering software used for product design and manufacturing. The latest release of the software, NX9 offers new and enhanced capabilities for product design, from concept through detailed engineering and documentation. NX 9 introduces new 3D CAD modelling techniques, improved 2D design and drafting, a streamlined user interface, faster access to PLM information, and a robust platform for concurrent engineering of complex products.

The popularity of the software can be gauged from the fact that it manages or creates more than 40 percent of the world's 3D data today. Following are the three distinct features of Siemens NX:

Design and Analysis Integration

NX is CAD and CAE rolled into one. In the past, product design and product analysis have always evolved as two different technologies and processes pertaining to two different departments. Only now the CAD/CAE is getting integrated.

Siemens NX offers a comprehensive system that is fully integrated between NX CAD and NX CAE. This CAD/CAE integration enables engineers to collaborate and share information. This supports innovation, because there are more ideas readily available to implement and try.

Synchronous Technology

Siemens NX was the first product to introduce "synchronous technology". It is considered one of the inflection points in the CAD industry, next to parametric-feature based modelling introduced by PTC with its Pro/E CAD software.

Simply put, the Synchronous Technology makes implementing new tweaks to designs fast and simple, which ultimately improves workflow. It allows you to edit native or imported CAD geometry in the model without understanding how the geometry was created originally (the model history or model tree).

High Definition PLM

Siemens has recently introduced what it calls High Definition PLM "to give everyone involved in making a product the information they need, when they need it, to make the smartest decision." The HD approach is about understanding and breaking down customer requirements, and assigning them to specific functional groups that develop a product feature, while maintaining visibility of the product as a whole.

As it is becoming an indispensable tool for engineers, getting trained in NX should figure high on your career agenda.

Two Quality Issues Engineering Education Faces in India

India produces more engineers than America. One statistics say that India churns out at least 5 times as many engineers as the U.S. But that does not mean that the skills imparted to our engineers and the ones to their American counterparts are the same.

According to a 2012 National Employability Report of Aspiring Minds, an employee assessment service provider, about 83% of engineering graduates are unfit for employment. There are about 14 lakh engineering seats available for admissions in colleges across the country. Though India has many engineering colleges that provide world class education, most of them face "quality"

issues. Often two fixed notions about engineering come in the way of providing quality in engineering education.

Notion 1: Engineering is just about engineering

Engineering education is not only about engineering. In other words, a person who only has engineering skills will not make a good engineer. Usually, curriculum of engineering colleges does not give enough importance to communication and interpersonal skills. Students practically get no exposure to organizational skills like working in a multi-disciplinary team or collaborating

with a geographically distributed team having members from different cultures.

Notion 2: Engineer's job is to follow rules

Engineering education may be about memorising facts, passing tests, and regurgitating information, and of course following the rules of the science. But engineering job demands students to think critically, try new things, fail and learn from their mistakes.

Industry does not need engineers. They need innovators. Employing organisations may hire top scorers but reward only the creative and the innovative.

However, what happens at colleges? Do we teach students to prototype and pitch their ideas with professors? Do we get industry experts to mentor students and help them turn their concepts into realities? Do we encourage students to use open courseware, made available by dotcoms like Coursera and EdX, so that they can learn arts? Do we have business incubators to offer knowledge in management, and learn how to do business?

Engineering colleges should ponder over these two quality issues, if they want to play a meaningful role in higher education and employment generation.

Go Digital, Get Employed

When people want to find information today their first choice is Google. They search internet even before they speak to their friends. Okay, now what do people do when they want to find people, instead of information?

More specially, in the context of finding people for jobs, where do organisations go? Till recently, they went straight to colleges. They conducted campus interviews and selected candidates. Campus interviews make sense when employees want to hire in mass scale. However, for many just-in-time hiring of special skills, organisations try internet.

Candidates should make themselves findable or searchable online. This means having your presence in:
A) professional social networking portals like LinkedIn, and
B) having a personal website, and better

updating your thoughts, experiences, and recent projects in these places.

Your LinkedIn profile

LinkedIn comes with many features to bring out your personality in different colors. To begin with write a 100 to 300 words long summary using keywords that might attract a headhunter or employer to your profile.

Increase your connections - find friends, mentors, relations who have a LinkedIn profile and connect with them. The more connections you have the more your profiles will be easily accessed. Get your skills endorsed by people for who you have worked as an intern. You can get the endorsements from your professors as well.

Your own personal website

According to Workfolio, a company that

develops applications for professional visibility, 56% of all hiring managers are more impressed by a candidate's personal website than any other personal branding tool—however, only 7% of job seekers actually have a personal website.

A website gives you creative freedom to express your personality in ways that are not be possible through your resume. Everything from the bio paragraph you write to the design options you choose for your website could give recruiters more chances to decide if they want to bring you in for an interview.

Make sure that your website has a brief bio of yourself, your resume, professional summary/objective, samples of your work, a blog, videos and other relevant multimedia, and testimonials. With these two tools, you would be better off in the job market.

CADD Centre's Engineeria 2014 attracts participation of 85,000 Students

Tata Nano , IPhone and Cash Awards, Among Prizes for Winners

CADD Centre organised Engineeria 2014, a quiz programme exclusively for engineers, to encourage learning and knowledge sharing among engineering students. The Grand Finale, held on 27th September 2014 at The Park Hotel, Chennai, witnessed the distribution of Emerging Engineer 2014 Award with the top prize of Tata's Nano car.

Engineeria 2014 is the India's largest engineering quiz, having attracted the participation of about 85,000 students pursing civil, architecture, mechanical, production, aeronautical, automobile, and electrical and electronics engineering in various institutions across the country.

This Stupendous quiz program was conducted at four levels. The preliminary rounds of the quiz held at colleges, and the subsequent rounds at various centres. The most awaited final round was held at The Park Hotel - Chennai.

Eight finalists were selected from 18 participants, for the final round and the winners were Mr. Adithya Prakash from Porur - Chennai, who was adjudged Emerging Engineer 2014, and was presented a TATA Nano car. The runner-up was Mr. Bharata, from S S Puram - Tumkur, who won Rs. 75,000 as cash prize, and the third place was bagged by Mr. Anubhav Saxena, from Hazratganj-Lucknow, who won a cash prize of Rs. 25000.

Commenting about Engineeria 2014, Mr. S Karaiadiselvan, Managing Director, CADD Centre Training Services (P) Limited, said "There are more than 8500+ Engineering institutions in India. They produce over 15 lakh engineering students every year.

However, a majority of them are not employable, because the lack of training in the skills that the industry needs. Students are also not abreast of the changes taking place in technology domains as well as in the industry. Hence, we conceived Engineeria as a national event that would encourage engineering students to learn the basics of their subjects and be up-to-date of new technological advancements."