

Satish Jain

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Education

- **University of Western Ontario** Ontario, Canada
Master of Engineering in Mechanical & Materials; 86% Sep. 2018 – Sep. 2019
 - **Courses taken** - Project Management, Product Design and Development, Biomedical Design, Automotive lightweight design, Finite element methods, Additive Manufacturing, Advanced material sciences, IPR for Engineers
 - **Presentations conducted** – 3D printing in space, Automotive light-weighting strategies, Design of Transcatheter Heart valve, Corrosion in firearms
 - **Case studies** – The Niagara Tunnel project, Vancouver's rapid transit rail line
- **MRCET affiliated to Jawaharlal Nehru Technological University** Hyderabad, India
Bachelor of Engineering in Mechanical; 77% Aug. 2013 – Jun. 2017

Experience

- **CleanMax** Bangalore, IN
Project Executive Jul. 2017 – Aug. 2018
 - **Project Management** - Worked as a Project Executive for India's largest renewable energy developer in the Commercial and Industrial sector. Handled numerous projects in Telangana under the supervision of State Manager.
 - **Megawatt scale solar projects** - Led teams in executing megawatt scale solar projects consisting of both land and roof mounted systems. Managed Vendors and responsible for daily on-site activities.
 - **Multi-project Environment** - Responsible for working on multiple projects at once in a highly dynamic and result – oriented environment. All projects were highly deadline driven and were carefully monitored to avoid any ambiguity.
 - **Customer-Centric Attitude** - Worked with clients such as L&T, United Breweries and Dr. Reddy's Laboratories. Held regular client meetings to meet weekly targets and always maintained a customer-centric attitude.
 - **Various Stakeholders** - Worked in conjunction with various stakeholders such as design, operations and business development teams during every stage of the project to ensure smooth running of the project.
- **Defense Research and Development Organization (DRDO)** Hyderabad, IN
Intern Dec. 2016 – Mar. 2017
 - Worked on the Non-Destructive testing of various cantilever beams using an electrodynamic vibrational shaker.
 - Responsible for producing designs and conducting simulations on a variety of different specimens.
 - Vibrational tests were then performed under the supervision of in-plant scientists and technicians.

Certifications and Skills

- **Certifications:** SOLIDWORKS Professional in design (ID: C-WJ3N5BGTFU), Associate in Simulation (ID: C-8ZKBCYMWPV)
- **CAD:** SOLIDWORKS, AutoCAD, Catia, Creo, Inventor, Google Sketchup, Fusion 360
- **Analysis:** Ansys, MATLAB, SW Simulation, Systems tool kit, PMBOK Methodologies, Python
- **Others:** Tableau, SQL, Excel, C, SSRS, Microsoft Project, Visual Studio, Photoshop, MS Office suite

Projects

- **Ground Mounted Fixed Solar Array:** Project lead during the installation and commissioning of two ground mounted solar systems totaling to a capacity of 1.4MW. Worked on two other rooftop projects during the commissioning phase.
- **Sprinkler system:** Worked on the design and execution of a sprinkler – based cleaning system for a parabolic rooftop. The system is still being used by Hyderabad Metro rail for the cleaning and maintenance of about 2,500 solar panels.
- **Adjustable Prosthetic leg prototype:** Designed, developed and 3D printed an adjustable prosthetic leg for children costing under \$200. Conducted relevant research and contacted an international NGO for market requirements.
- **Pick and Place Robotic arm:** Worked on the design and animation of a pick and place robotic arm using SOLIDWORKS, trained first years on the use of 3D printers and helped them build the system.
- **Satellite trajectory simulation:** Team of 3 worked on the simulation of a satellite trajectory through space using systems toolkit (STK), the satellite was simulated to slingshot around Moon and then park in an orbit around Mars.
- **Mock rank calculator:** Created a program in C language to predict mock student ranks in the first year of engineering. Inputs were given by the user and the system displayed a relevant rank range that the student falls in.
- **Personal Projects:** During the **COVID-19** Pandemic noticed a market need for automatic hand sanitizer stands, quickly met a few fabricators, gathered the resources and marketed the product by visiting standalone shops. Sold 80 Stands in the first week itself. Aerial photography enthusiast, run a travel blog and a YouTube channel with over a million views.