

OBJECTIVE

To secure a responsible career opportunity where I can use as well as continuously improve my skills and be a better version of myself.

EDUCATION

Degree	Institute	Board/University	Year	Performance
B TECH INTGRATED X	MPSTME MUMBAI	SVKM's NMIMS	2015-2021	2.94 / 4 CGPA (till date)
	St. Paul's High School	SSC	2014-2015	73%

INTERNSHIPS

Company & Duration	Roles and Responsibilities
CAM TOOLS INDUSTRIES.PVT.LTD. Mumbai, Maharashtra. 8 th June 2020 to 3 rd May 2021	<ul style="list-style-type: none"> Worked as Product Design Engineer Worked on Autodesk Fusion 360 CAD software Designed 3D models of toys with respect to injection molding process. Toys designed – 3x3 Rubik's Cube, Water Tanker Truck, Cement Mixer Truck Additional Designs- Electric Bicycle battery case, which I designed for a client who is an electric bicycle manufacturer. Hands on experience in using a Fused Deposition Method (FDM) 3D printer which used PLA (Polylactic Acid) plastic filament. 3D printed the designed toys to validate the assembly and the working of the same. Assisting new interns to learn CAD software by sharing my experience and challenges that I faced.
Fraternity of Mechanical and Automotive Engineers (FMAE)	<ul style="list-style-type: none"> Gained knowledge about the construction and working of a quadbike Learnt different sections of the quadbike such as chassis, brakes, steering etc. Built the chassis of the Quadbike by using mechanical engineering mediums such as notching, welding etc.

KEY PROJECTS

Year	Project Title	Platforms Used / Brief Description
2 nd Year IV Semester	Smart City (won 2nd prize)	Using natural resources such as sun, water, wind to produce electricity to power the city and a smart street which senses a vehicle and turns on the street lights by using a cardboard box, a small solar panel, some DC motors, a few LED lights, batteries, hookup wires.
5 th Year IX and X Semester	Design of an Automatic Multipurpose Machine (Cutting and Beading Machine)	Cutting process and Beading process requires different machines. Our primary goal with this project is to provide the design and the analysis to serve two different processes in a single machine and the transformation from hydraulic to pneumatic system and to provide a product which enables easy user interaction, minimum maintenance, a modular setting which makes it a multipurpose machine.
5 th Year X Semester	Sound Intensity Detector in Decibel using Arduino	To detect the intensity of the sound and indicate the intensity by the means of LEDs by using ARDUINO UNO.
6 th Year (Personal Project)	Robotic Car which is controlled via a smartphone application through Bluetooth	By using an Arduino UNO and a Bluetooth transmitter which controls the movement of the Robotic Car via a smartphone application

TECHNICAL SKILLS

Domain	Proficient in	Familiar With
Programming Languages		C programming, Python
Software	Microsoft Office	Google sheets, docs, slides
Design and analysis	AutoCAD, CATIA, Fusion 360, ANSYS	SolidWorks

WORKSHOPS/TRAININGS/ONLINE COURSES

	Brief Description
Larsen & Toubro Industrial Training Program, Mumbai	<ul style="list-style-type: none"> Gained hands-on training to enhance the skills pertaining to various engineering aspects such as: Manufacturing processes, innovation tools (Ideation), fabrication training, embedded system design, emerging technologies- IOT and 3D printing, automation- PLC, Life skills, electrical and drives, manufacturing excellence-5S,6 Sigma, Lean
Larsen and Toubro Industry Visit	<ul style="list-style-type: none"> Training Module Workshop on Industrial Safety at Madh Campus Sheet Metal and Fabrication
Industrial Visits (1-2 days)	<ul style="list-style-type: none"> L&T - Fire Safety Training L&T - Welding Training Indofab - Fabrication Global Metal Forging - Pneumatic Hammer Forging Rani Sati - Casting Industry Precision Industry - high Precision CNC's Nelson - Silencer Manufacturing Atai Auto - automobile parts manufacturing Saral Engineering - Manufacturing of machine used in pharmaceutical company i.e. Fluid Bed Dryers (FBD) Connectwell - Switch gear manufacturing
Courses	<ul style="list-style-type: none"> Detailed Course on AutoCAD, Catia, ANSYS (ongoing)
Massive Open Online Courses (MOOC)	<ul style="list-style-type: none"> Rocket Engineering and Interstellar Space Propulsion Industrial Robotics Solar Energy Basic Project Management Python (ongoing)

EXTRA-CURRICULAR ACTIVITIES / ACHIEVEMENTS / INTERESTS

Co – Curriculars And Extra – Curricular	<ul style="list-style-type: none"> FIDE rated chess player with a current rating of 1056 Participated in international level chess tournament “Mayors Cup” in 2015 Qualified for quarterfinals in ROTOFEST Intercollege Table Tennis tournament Participated in FURY Intercollege Table Tennis tournament
Interests	<ul style="list-style-type: none"> Sports- Chess, Table tennis, Swimming.

DECLARATION

I hereby declare that all the above information is correct to the best of my knowledge.

Date-

(Aly Merchant)