

## EDUCATION

QUALIFICATION	UNIVERSITY/BOARD	COLLEGE/SCHOOL	YEAR	CGPA/PERCENTAGE
BE MECHANICAL ENGG. WITH HONORS	Panjab University, Chandigarh	Chandigarh College of Engineering & Technology	2019	8.65/10
HIGHER SECONDARY	CBSE	Shivalik Public School	2015	88.4%
MATRICULATION	CBSE	Shivalik Public School	2012	9.8/10

## TECHNICAL SKILLS

**SOFTWARE**    **Mechanical Design and analysis:** Solidworks, CATIA, Ansys Workbench, HyperMesh, Lotus Shark, Star CCM+  
**Language:** MATLAB  
**Utility:** MS Word, MS Excel, MS PowerPoint

## INTERSHIPS

### Tool Design and Technology| SML ISUZU| TRAINEE

JUNE 2018-JULY 2018 (UNDER THE SUPERVISION OF MR. BIKRAMJEET SINGH, TECHNOLOGY DEPARTMENT)

- Designed a Pneumatic Press and 2 Washing Bins for transmission unit covers.
- Learned about intricacies in Technology Department of a company like:
  - Division of work-force.
  - Changing and setup of existing industrial layout.
- Revamped on various SOPs (Standard Operating Procedure).
- Studied about different suspensions used in buses and trucks.
- Studied about Cathodic Electrodeposition.

### New Technology | Spark Minda| TRAINEE

JAN 2019-MAY 2019 (UNDER THE SUPERVISION OF MR. VIKRAM PURI, GENERAL MANAGER R&D)

- Software structural analysis of many different parts.
- Learned about the nuances of the product development.
- **Publication: Design and Development of Fuel Tank Caps according to Emission Standards Adopted by Regulating Authorities** MAY 5, 2019 PUBLICATION DESCRIPTION: INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY (IRJET)
- Designed, analyzed and prototyped many parts for upcoming products of the company.

## PROJECTS

### FORMULA BHARAT| Mobility Engineering Consortium Private Ltd.

MAR 2018-JAN 2019 (UNDER THE SUPERVISION OF DR. ASHWANI KUMAR, ASTT. PROF., C.C.E.T. CHANDIGARH)

- Served as the Team Captain of the tenure.
- Headed the various static events, managed the team for the tenure and official handling of the team.
- Designed the suspension system and was the geometric integrator of the team.

### FORMULA BHARAT| Mobility Engineering Consortium Private Ltd.

MAR 2016-JAN 2017 (UNDER THE SUPERVISION OF DR. ASHWANI KUMAR, ASTT. PROF., C.C.E.T. CHANDIGARH)

- Designed suspension and braking system of a single seater racing car.
- Headed Business event for the competition in which we have to setup a hypothetical company to sell formula student car.
- Held the position of Team Manager, during this term I handled the division of work and managed every proceedings & official work.

### Formula Student India| FMSCI (Federation of Motor Sports Clubs of India)

AUG 2015-JAN 2016

- Designed suspension of a single seater racing car.
- Headed the Real-Life sale and industrial presentation which was judged by industrial experts.

## ENGINEERING DRAWING SOFTWARE| C.C.E.T.

JUL 2017- NOV 2017 (UNDER THE SUPERVISION OF DR. JATINDER MADAN, H.O.D. MECH. DEPT., C.C.E.T. CHANDIGARH)

- Developed a software that can be used to plot or draw 2-D sketches using basic shapes and lines.
- During the course of developing the software I learnt about app development in MATLAB.

## CAVITATION AND PRESSURE DISTRIBUTION IN PUMP| CCET

JAN 2017- APR 2017 (UNDER THE SUPERVISION OF DR. ASHWANI KUMAR, ASTT. PROF., C.C.E.T. CHANDIGARH)

- Design and Analyzed constraints of an existing pump.
- Studied the formation of cavities and different pressure regions developing in it during operation with help of ANSYS FLUENT.

## Comparison of a NACA airfoil at different attack angles| CCET

JUL 2017- NOV 2017 (UNDER THE SUPERVISION OF DR. ASHWANI KUMAR, ASTT. PROF., C.C.E.T. CHANDIGARH)

- Analysis of NACA airfoil at specific speed and conditions for optimum downforce and least drag.

## FUEL MEASUREMENT SYSTEM| CCET

JUNE 2017-JULY 2017 (UNDER THE SUPERVISION OF DR. RADHEY SHYAM, ASTT. PROF., C.C.E.T. CHANDIGARH)

- Designed and Pioneered a fuel measurement and level indicator for automobiles.
- Learned basic programming in Arduino IDE.

## AWARDS AND HONORS

- **Batch Topper** in 3rd Year.
- Won **First prize** in **Innovative Product Design competition** conducted by **Indian Society for Technical Education**.
- **Ranked 26<sup>th</sup>** all over India for **business presentation** at Formula Bharat.
- Won **First prize** at **CAD Competition** held by National Institute of Technical Teacher Training and Research, NITTTR, Chd.
- Receiving **Scholarship** for all 4 years of BE for being in merit, from college.
- Among the very few from the university to receive a **BE degree with honors**.

## CERTIFICATIONS

- Completed the requirements for **Certified Associate - Mechanical Design (CSWA) Solidworks**.
- Completed a course in **Ansys Workbench**.

## POSITIONS OF RESPONSIBILITY

- Acting **Chairperson** of **American Society of Mechanical Engineers ASME, Student section**. Where we handle many activities, workshops and competitions for students of our as well as other colleges.
- Leading as **Team Captain** of **Formula Student Club (FSAE club) Team Corsa**. Where we design and manufacture single seater formula racing type car. With handling all the soft skills portion in a manufacturing project, I also **head the Vehicle Dynamics** Department of the team.
- Serving as **President** of **Mechanicus Club** which handle every activity and competition for Mechanical Department CCET.
- Serving as **Co-Head** for **Mech-Tech** for college Fest APRATIM, which handles all tech events for the college fest. This includes events like Robo-race, Robowars, CADD comp. and Mechanical Quiz.
- Part of **Rotaract Club Himalayan Chandigarh as-G.B.M**. Rotaract club organizes various fund-raising events from which the collected funds are used to serve various purpose to uplift our society like improving condition of various schools.

## CO-CURRICULAR ACTIVITIES

- Participated in **Formula Student events**, for which we design and manufacture a racing car.
- Participated at many **CAD competitions** held at CCET, NITTR etc.
- Was in organizing team of **International Cultural Event Rotasia**.
- Organized CAD workshop and competition Under **ASME Student Section**.

## EXTRA-CURRICULAR/COMUNNITY ACTIVITIES

- Yellow Belt in **Martial Arts**.
- Team member of **Rotaract Club Himalayan Chandigarh**, where we organize fund raising events from which the collected revenues are used to uplift schools that are in a very bad condition.

## RELEVANT COURSEWORK

FEM/FEA  
CAD/CAM  
Design of Machine Elements

Manufacturing Technology  
Automobile  
Fluid Mechanics

Fluid Machinery  
Theory of Machines  
Applied Thermodynamics