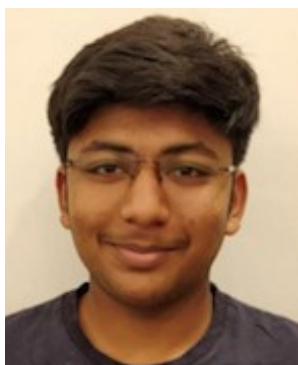


Chirag Agrawal

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I am an automobile enthusiast seeking a challenging role in the automobile industry where my skills, knowledge, and experience can be utilized and nurtured effectively to develop energy efficient and high performance vehicles.

EXPERIENCE AND ACHIEVEMENTS - B. TECH.

Team Leader, Structures and Aerodynamics Engineer

Team SolarMobil Manipal · Sept 2019 - Present

- Led the functioning and technical output of the team building a single-seater endurance solar car, set to be driven across India.
- Worked on car bodyworks designing under industry experts at a transport design studio, **Studio 34, Manesar, Haryana, India.**
- Started **industry academia tie-up** for the team to enhance their knowledge in **composite materials.**
- Introduced an **autonomous mini project** in the team, and manufactured a **working prototype** in-house within a month.
- Optimized car aerodynamics with **CFD Simulation** on the bodyworks.
- Conducted **Wind Tunnel Testing** of a scaled model of the designed vehicle.
- Worked on **FEA simulation** of parts of the braking assembly and the space frame chassis of the car.
- Created a **task management system** for all members to contribute efficiently.

Core & Management Committee Member

IE Mechatronics, Manipal Chapter · November 2020 - Present

- Worked on **designing 4 DOF Robotic Arm** with infinite rotation of the prism and concealed wire system.
- Mentor and guide the Management Committee and Working Committee members with their projects.
- Introduce new projects idea, resource management, and project planning.

Volunteering and Responsibilities

- Coach at ASME Manipal Chapter to guide students on the basics of Mechanical Engineering, CAD, CAM, CAE, and Designing as per their events and goals with new and innovative designs for the particular application.
- Organizing and Planning Head for 'Human Powered Endeavors', an outdoor club.

EXPERIENCE AND ACHIEVEMENTS - 10 +2

ATL Innovation Lab Grant - 2017

Represented the school at Niti Aayog, for grant of ATL Lab, worth -20 Lacs

Entrepreneurship Camp Winner - 2018

Participated and voted as the "#1 Participant" at Summer Camp organized by Entrepreneurship Development Institute of India, Gandhinagar, Gujarat, India

Volunteering and Projects

- Volunteered for Society Waste Compost Project, observe and troubleshoot the problems, and made modification to the composting method and the pit design to improve the cycle and output. 2017-19
- Made an FPV Quadcopter Drone, Fire Extinguishing Concept robot, participate and organized Robowar events. 2015-2017

EDUCATION

B Tech Mechanical Engineering
CGPA 8.15

*Manipal Institute of Technology,
Karnataka, 2023*

Class XII CBSE 89%
PCM + Economics

*Apeejay School, Sheikh Sarai,
New Delhi 2019*

STRENGTHS

- Creativity
- Innovativeness
- Logical Thinking
- Leadership Skills

LANGUAGES

Native Proficiency in Hindi
Bilingual Proficiency in English
Elementary Proficiency German

SKILLS

Autodesk Fusion 360
Solidworks
Catia
Ansys Workbench and APDL,
AutoCAD
Composites Manufacturing
Techniques

Experience with TIG Welding
as well as CNC Machine

INTERESTS

Formula 1
Car Racing
Rifle Shooting
Wildlife Photography
Simple Machines Designing
Woodworking and Manufacturing