

Sandip Kumar.S

Undergraduate Student

Aspiring mechanical engineering sophomore dedicated to translating theoretical concepts into real-time applications with an unwavering determination, diligence and depth of knowledge.



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EDUCATION

B.E. MECHANICAL ENGINEERING

COLLEGE OF ENGINEERING GUINDY, ANNA UNIVERSITY, CHENNAI

10/2022 - Present

CGPA- 8.13

Grade XII

D.A.V. PUBLIC SCHOOL,VELACHERY,CHENNAI

04/2021 - 04/2022

Percentage- 96.6%

Grade X

D.A.V. PUBLIC SCHOOL,VELACHERY,CHENNAI

04/2019 - 03/2020

Percentage- 96.4%

WORK EXPERIENCE

Senior Suspension & Steering Vertical Member CEG MOTORSPORTS

04/2023 - Present

We design and fabricate an ATV every year for the BAJA SAE competition. In the past 17 years, our team has made several innovations and received numerous awards along the way.

Achievements/Tasks

- Part of the team that bagged **AIR-4** and the **Best Debutant Award** in E-BAJA 2024.
- Part of the CAE team.
- Design, Fabrication and Assembly of Vehicle.
- Documentation and Presentations.

Junior Startup Head

Anna University Student Entrepreneurship Club (AUSEC)

09/2023 - 04/2024

Achievements/Tasks

- Organized several events like Enantra, Startup Weekend, Idea Crunch, etc.
- Secured sponsors and brought in judges for events.

Structural Design Intern

SINGORISON

12/2022 - 07/2023

Chennai

Deep-tech robotics startup that aims at the eradication of manual scavenging.

Achievements/Tasks

- Thorough research and analysis of the competitors.
- Fabrication and assembly of prototype.
- Detailed report on potential materials to use for the model and dimensions of manholes in India.

SKILLS

Solidworks

Ansys

AutoCad

Python

Altair Hyperworks

MS Office

Logical Thinking

People Management

Lotus Suspension Analysis

PERSONAL PROJECTS

PIN ON DISC WEAR TEST MODEL (In progress) (03/2024 - Present)

- A cost effective working model to find the friction coefficient of materials by integrating the setup in a precision lathe machine.

ANALYSIS AND COMPARISON OF OTTO ENGINE USING A PYTHON PROGRAM (04/2024 - 04/2024)

- The program calculates the efficiency of real life engines, plots T-S, P-V Graphs and compares 3 different engines.

PNEUMATIC BOTTLE CLEANER (04/2024 - 05/2024)

- A cleaning tool reciprocates through the bottle or any tubular structure to cleanse it. It is a low cost option for small scale industries.

ORGANIZATIONS

National Sports Organization (11/2022 - Present)

ACHIEVEMENTS & AWARDS

ATVC Technical Session Series on Vehicle Dynamics (10/2023)

AIR-4 and the Best Debutant Award in E-BAJA 2024. (03/2024)

LANGUAGES

English

Full Professional Proficiency

Tamil

Native or Bilingual Proficiency

Hindi

Elementary Proficiency