

PAVAN P

B.E. MECHANICAL ENGINEERING

An ambitious and self-driven mechanical engineering student who is passionate about teamwork and seeking an entry level position. I look forward to a growth oriented and challenging career.

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EDUCATIONAL
DETAILS

PSG Institute of Technology and Applied Research

- B.E. Mechanical Engineering
- 8.47* CGPA (Upto 5th Semester)
- Coimbatore, 2021-2024

Bharathi Matric Higher Secondary School

- Higher Secondary - 95%
- Coimbatore, 2020-2021
- Secondary School - 95.8%
- Coimbatore, 2018-2019

LANGUAGES

TAMIL - Read, Write and Speak

ENGLISH - Read, Write and Speak

TELUGU - Speak

TECHNICAL SKILLS

CAD design
(Intermediate)

Microsoft Excel
(Intermediate)

Ansys (Workbench & Fluent)
(Basic)

SOFT SKILLS

Communication

Teamwork

Leadership

Presentation

Adaptability

AREAS OF INTEREST

Smart materials (Shape Memory Alloys)

Strength of Materials

Fluid Mechanics

PROJECTS
AND
COMPETITIONS

Design of a Shape Memory Alloy (SMA)-based fluid flow regulator

Coimbatore, 2024

(Design Patent) ongoing

- Designed a simple flow-regulating setup with a trained Shape Memory Alloy strip that alters the cross-sectional fluid flow area.
- The 2-way Shape Memory Effect of the SMA is used to regulate the flow.
- A maximum of 9.7% increase in the average fluid velocity at the pipe outlet was achieved theoretically.

Velocita E-Racing (Formula-style electric race car team)

Coimbatore, 2022 to 2024

Technical Team Member - Brakes

- A brake pedal for a Hydraulic Brake System for an electric race car was designed.
- Calculation of longitudinal load transfer for braking distribution.

Non-technical Team Member and Lead - Management

- Developed a business plan pitch based on an electric formula race car.
- Managed raw material procurement and initiated sponsorship activities to satisfy our project's financial and technical needs.

Reverse Engineering

Chennai, 2023

- National-level competition conducted by SAE INDIA Southern Section (SAEISS).
- Our team secured 1st place.

WORKSHOPS

Reverse Engineering

Chennai

- Attended a 6-day workshop on Reverse Engineering conducted by SAE India Southern Section (SAEISS) at MIT campus.

22/08/2022 to 27/08/2022

Entrepreneurship camp

Coimbatore

- Attended a 3-day workshop on Entrepreneurship conducted by the Entrepreneurship Club at PSG TECH.

21/12/2021 to 23/12/2021

Department of Metallurgical and Materials Engineering

- Exposure to **characterization techniques** like **DSC**, **APT**, **XRD**, and **SEM**
- Exposure to **Shape Memory Alloys**, and their **thermal cycling behavior**
- Designing a simple SMA-based setup to increase fluid velocity at a pipe outlet
- **Sample Preparation** for micro tensile test.

Skills gained:

CAD design Ansys (Fluent)

L.G. Balakrishnan and Bros Ltd

Coimbatore

Surveying

10/07/2023 to 30/07/2023

- To find the **potential after-market spare parts** that can be added to the research and development process.
- **100 two-wheeler technicians** were interviewed.
- location - **Coimbatore** (24 areas in total)
- The general opinion of two-wheeler technicians on **46** after-market spare parts was recorded.

Skills gained:

Surveying Documentation Time Management

ONLINE COURSES

- **Solidworks**: Become a Certified Associate Today - CSWA UDEMY.
- Geometric Dimensioning & Tolerancing (**GD&T**) IMTMA.
- **Excel** Essential Training (Office 365/Microsoft 365) Linked in Learning

30/10/2023

13/08/2023

06/09/2022

IMPORTANT ROLES

- **SECRETARY** of Mechanical Engineering Association
- **Executive Member** of Entrepreneurship Club
- **Assistant School Pupil Leader** (ASPL)

PSG iTech, 2023-2024

PSG iTech, 2022-2023

BMHSS, 2019-2020

EXTRA CURRICULAR

- Badminton - **Winner** of the house match
- Volunteer at **PSG iTech Expo**
- Volunteer at **Industry-Academia Conclave**

PSG iTech, 2024

PSG iTech, 2023

PSG iTech, 2022

DECLARATION

I affirm that the above particulars are true to the best of my knowledge and belief.



PAVAN P