

# Prajval sp nair

Pursuing B.E. in Mechanical Engineering

## Contact

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Bangalore, India

## Education

### UG COURSE

JSS Academy of Technical  
Education

BE in Mechanical Engineering

2023 – 2026

Current GPA – 7.41

### SECONDARY EDUCATION

GT&TC (Government tool room &  
training center)

DTDM

2019 – 2023

Percentage – 67.41%

### PRIMARY EDUCATION

HRNPS (Hill rock national public  
school)

2007 – 2019

Percentage – 49.8%

## Skills

### TECHNICAL SKILLS

- Cad drafting , modeling
- Fusion 360
- Solid works
- Catia (Basic)
- Python, ms office, word, excel

## • Objective

Detail-oriented and motivated, pursuing a Bachelor's degree in Mechanical Engineering. Proficient in CAD designing with a solid foundation in tools such as solid edge, fusion 360, 3D-Experience and beginner-level knowledge of CNC programming. Eager to apply theoretical knowledge and hands-on experience to contribute effectively to engineering projects and further develop skills in a dynamic professional environment.

## Internships

- DATE: 29/09/2022 to 14/07/2023  
Toyotetsu india PVT  
Conventional Machine Operation, Die Trouble Shooting,  
Online maintenance of Dies, Preventive maintenance  
Of dies, Welding of blocks, crane operation .
- DATE: 10/03/2025 to 06/09/2025 (Ongoing)  
AUTOCAD.  
2-D Drafting, 3-D Modeling, Basic Simulation .

## Projects

### Major Project (Aerodynamic Design Optimization of a fin):

This study optimized the UAS-S45's aerodynamics using morphing airfoils (DNLE & MTE) with a hybrid PSO-PS technique. Results showed a 21% lift increase for DNLE and 10.25% endurance gain for MTE. Future work includes 3D analysis, structural integration, and testing.

### Mini Project (Foot step power generator):

This study developed a footstep power generator using piezoelectric and mechanical systems for efficient energy conversion. Future work includes optimization and real-world testing.

## Intrapersonal skills

- Problem solving
- Attention to detail
- Communication
- Team management

## Hobbies

- Chess
- Reading Books

## Certifications

- AUTOCAD certification for modeling , simulation, Drafting (ongoing)
- 1 year industrial experience certification in toyotetsu india PVT

## Personal Information

Name: Prajval sp nair

Date of Birth: 07/06/2003

Father's Name: Sathya kumar k

Nationality: Indian

Languages Known: English, Kannada , Malayalam and Hindi

**DECLARATION: I here by declare that all the details mentioned above is true to the best of my knowledge**

**DATE:**

**PLACE: Bangalore**