

# MALARVANNAN M

## MECHANICAL ENGINEERING



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Salem - 636451

### CAREER OBJECTIVE

Mechanical Engineering student with basic knowledge of mechanical design and manufacturing engineering. Interested in electric vehicles, energy systems, and EV hardware. Seeking an internship to learn and contribute to EV components, testing, and product engineering.

### EDUCATION

#### B.E. Mechanical Engineering

Bannari Amman Institute of Technology | 2023 - 2027

CGPA: 7.94 / 10

#### Higher Secondary Certificate (HSC)

MAM Exel Matric Higher Secondary School | 2022 - 2023

Percentage: 78%

#### Secondary School Leaving Certificate (SSLC)

MAM Exel Matric Higher Secondary School | 2020 - 2021

### TECHNICAL SKILLS

- Mechanical Design
- 3D CAD Modeling Software
- C Programming (Basics)
- Engineering Drawing
- Manufacturing Processes

### SOFT SKILLS

- Problem Solving
- Team Collaboration
- Time Management

### INTERNSHIP EXPERIENCE

#### Galexon Engineering Industries - Aug 2025

- Assisted in the design of mechanical components using SolidWorks
- Prepared accurate 2D drawings and basic assemblies as per industrial drafting standards
- Gained practical exposure to manufacturing processes and real-world design practices

### PROJECTS

#### Design, Analysis and Prototyping of a High-Performance Bicycle

Role: Mechanical Design & Manufacturing

- Designed bicycle frame geometry focusing on strength, weight, and performance
- Performed basic analysis and supported fabrication and prototype assembly

#### Autonomous Excavation Rover

Role: Mechanical Design & Manufacturing

- Designed mechanical structure for excavation and dumping mechanism
- Assisted in system integration, testing, and performance evaluation

### COMPETITIONS

- Caterpillar Autonomous Challenge – IIT Madras
- Euphoria 2K25 – Kalasalingam University
- SAE Bicycle Design Challenge
- Pragyan 2K25 – National Institute of Technology (NIT), Trichy

### AREAS OF INTEREST

- Mechanical Design
- Manufacturing Engineering
- Automation & Industrial Systems