**SIDDHANTH MADHAVAN**

**PROFILE**

A mechanical engineering graduate with a strong foundation in mechanical engineering principles, material science, additive manufacturing, supply chain, and engineering design. through various academic projects and internships, I have gained experience in designing software, manufacturing techniques, lean manufacturing, and quality control. I have developed strong collaboration and communication skills through team projects. As a highly motivated individual, I am eager to supply my skills and knowledge to an engineering role. I am a quick learner and committed to continuously improving my abilities as a mechanical engineer

**EDUCATION**

* **B.Tech** **Mechanical Engineering**

**CGPA – 8.04 / 10 2019-2023**

Amrita Vishwa Vidyapeetham

* **Class 12** – 85.33% **2019**

Institution:

* **Class 10** – 96.6% **2017**

Institution:

**TECHNICAL INTERESTS**

Renewable Energy

**PROJECTS**

**Design of valve gear mechanism**

Duration: 2/2022 - 5/2022

Description:

The valve gear mechanism is an essential component of an internal combustion engine that controls the opening and closing of the engine's intake and exhaust valves. Load analysis was done in ANSYS and the design was improved.

**Venting of hot air inside the car by using renewable sources of energy**

Duration: 7/2022 - 11/2022

Description:

A separate venting system was designed and with the help of a temperature sensor a threshold temperature was fixed for the system to function. A solar panel was used to power the venting system.

**Additive manufacturing of sensor using ABS-CNT to measure void fraction measurement**

Duration: 1/2023 - present

Description:

An alternative sensor to copper sensor for measuring void fraction which can be used for nonconductive and conductive fluids.

A cost-effective and durable sensor is made using ABS-CNT composite material.

A new composition of CNT is tried out with ABS to enhance the mechanical, and electrical properties of ABS

**TECHNICAL SKILLS**

ANSYS( work bench, mechanical APDL), Autodesk Inventor, SolidWorks, Programming, Python, C++, Machine Learning, MATLAB, Lean Manufacturing, Quality Control, Project Management

**INTERNSHIP**

**ELGI Industries Private Limited | COIMBATORE, Tamil Nadu**Intern | 06/2022 - 07/2022

 To learn how compressors are manufactured and the process involved in it.

 Learnt how compressors are manufactured, how lean manufacturing process is implemented and reduce the wastage using 7QC tools, to reduce the defects and improve the quality.

Project completed :   
 1. To balance the production line, reduce the production time with help of lean manufacturing principles.

2. to identify the defects in manufacturing and reducing the defects with the help of 7 QC tools.

**Roots industries private limited | COIMBATORE, Tamil Nadu   
Internship Student | 12/2019 - 01/2020**

 To learn the work culture, machines and methods used in the production of horns.

 Learnt work habits in a manufacturing company, hands on experience on various machine and tools, basics of designing and some basic functions of a vehicle horn.

**CERTIFICATIONS**

Machine learning - Verzeo, Python programming - Udemy

**LANGUAGES**

English, Hindi, Tamil