**SHANMUKHA SRIRAM JEERI**

**PROFILE**

An emerging Mechanical Engineer with innovative ideas, skills and creativity seeking an entry level position in a dynamic organization preferably in the field of Mechanical Design, Manufacturing , Material Sciences, and related fields resulting in professional and personal advancement along with organizational growth.

**EDUCATION**

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

**CGPA –89.2 / 10 2019-2023**

Amrita Vishwa Vidyapeetham

* **Class 12** – 94% **2019**

Institution:

* **Class 10** – 97% **2017**

Institution:

**TECHNICAL INTERESTS**

Mechanical Design   
Manufacturing   
Material Science

**PROJECTS**

**Tribo-Mechanical Property Evaluation of Ceramic-lined Steel Pipe fabricated using Self-Propagating High-Temperature Synthesis**   
Objective: To coat the AISI 1020 Mild Steel substrate with Ti-C to analyze and study the tribo-mechanical properties.

Duration: 24 weeks   
Tools: SEM, EDS, XRD, Vickers micro-hardness tester   
Results: Ti-C was coated onto AISI 1020 Mild Steel substrate and the surface morphology studied using SEM, EDS, and XRD.Improvement in the surface hardness of the substrate & reduction in specific wear rate when compared to uncoated samples is observed.

**Automatic Waste Segregator**   
Objective: To design and present a Waste Segregator as part of the ‘Design Thinking’ course.

Duration: 12 weeks   
Tools Used: Autodesk Inventor, Sensors, Stepper and Servo Motors, Arduino Uno   
Results: Designed and Fabricated an Automatic Waste Segregator which separates the waste into different categories such as Wet, Dry, Metal, etc.

**Hydraulic Vane Pump**   
Objective: Designing various parts of the Hydraulic Vane Pump and assemble them as a part of ‘Machine Drawing’ course.

Duration: 2 weeks   
Tools: Autodesk Inventor   
Results: Various parts of the Hydraulic Vane Pump were designed and assembled and presented.

**TECHNICAL SKILLS**

C, Python, SQL, AutoCAD, Autodesk Inventor, Autodesk Fusion360, Ansys Mechanical APDL, GNU Octave/MATLAB

**INTERNSHIP**

**Garuda3D (FFF 3D Printer Manufacturers) – Hyderabad, Telangana**   
 • Objective: Interned at ‘Garuda3D’ as a part of Summer Internship   
 • Duration: 4 weeks (08/06/2022 to 05/07/2022)   
 • Roles Assigned: Assembly of FFF 3D Printers, Design of machine assembly parts and customized parts, Research and Study of IDEx (Independent Dual Extruder) 3D Printers, Troubleshooting of printers • Tools: Fusion360, Ultimaker Cura, Simplify3D   
 • Result: Exposed to various activities related to FFF 3D Printers and better understanding on Additive Manufacturing processes.

**LANGUAGES**

English, Telugu, Hindi