**S.SIVARAM**

**PROFILE**

An active and emerging mechanical engineer seeking an entry level opportunity in a competitive environment, preferably in the areas related to research, designing, project management and related fields, resulting in organizational and professional growth.

**EDUCATION**

* **B.Tech Mechanical Engineering**

**CGPA – 8.6 / 10 2019-2023**

Amrita Vishwa Vidyapeetham

* **Class 12** – 82.8% **2019**

Institution: SPIC Nagar Higher Secondary School

* **Class 10** – 96.4% **2017**

Institution: SPIC Nagar Higher Secondary School

**TECHNICAL INTERESTS**

Heat transfer   
Thermodynamics

**PROJECTS**

**Hot rolling of steel-aluminum-steel alloy and analyzing the roll bonding.**

·Duration/Period: 02/2021 – 08/2022   
·Objective: To analyze the bonding behavior of steel-aluminum-steel alloy when rolled under cold condition. To detect the defects formed during cold rolling under rolling mills.

·Tools or techniques used: Microscopical observation was done by scanning electron microscope to find the fusion region between the alloys after cold rolling by rolling mills.

·Outcome: Based on experiments an analysis were done. Expected to publish paper.

**Design calculation and analysis of scissor jack**   
·Duration/Period: 10/2021 – 11/2021   
·Objective: To design a scissor jack and modeling it using software.

·Tools or techniques used: Inventor (3D modeling software) was used to model the component.

·Outcome: Designed and structural analysis were done.

**TECHNICAL SKILLS**

Python, C, MATLAB, Ansys, Inventor, Solidworks

**INTERNSHIP**

**Southern Petrochemical Industries Corporation Limited, Thoothukudi.**

**·**Duration/Period: 08-06-2022 to 22-06-2022   
·Objective: To learn the mechanical components used for the Di-Ammonium Phosphate production.

·Tools or techniques used: Granulator, neutralizer, dryer and cooler are the major components used for the Di-Ammonium Phosphate production.

·Outcome: Learnt about the production process and its components used in SPIC plant.

**Zirconium Complex (a unit of NFC), Department of Atomic Energy, Thoothukudi.**

·Duration/Period: 23-06-2022 to 07-07-2022   
·Objective: To learn the production process of reactor grade zirconium sponge from its ore and the mechanical components assist for the production.

·Tools or techniques used: Cooling water facility is given by evaporative type cooling tower. Instrument air is generated by reciprocating multistage compressor and steam is produced by 3 pass horizontal fire tube boilers F&A 100℃.

·Outcome: Learnt about production and its mechanical components used in zirconium complex.

·Project: Designed and modelled an air receiver based on ASME and ASTM standards.

**ACHIEVEMENTS & HONOURS**

National Service Scheme (NSS)   
·Area / Topic / Details: Social camp for 10 days at government amenities in village.

·When & Where: 24-09-2017 to 30-09-2017 at Muthayapuram, Thoothukudi.

**LANGUAGES**

English, Tamil