VISWA M

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VISWA M
Portfolio

Profile

Hello, I'm Viswa, a passionate Mechanical Engineering student at Sri Krishna College of Technology. I specialize in blending mechanical engineering principles with computer science to develop innovative solutions in product design, analysis, and automation. Proficient in CAD software, Python, C++, Java, and MATLAB, I bring expertise in visualization techniques for CFD and FEA, alongside advanced Python automation for mechanical systems. I thrive in collaborative environments, focusing on precision, efficiency, and groundbreaking innovation.

Education

10/2022 – present
Coimbatore, India
UG - B. E MECHANICAL ENGINEERING (7.35 CGPA)
Sri Krishna College of Technology

2021 – 2022
Tuticorin, Tamil Nadu, India
12-th (60.6 %)
Alagar Public School

2019 – 2020
Ramnad ,Tamil Nadu, India
10-th (78%)
Amrita Vidyalayam

Skills

Design Software :
- Solidworks
- Autocad
- Creo Parametric

CFD / FEA :
- ANSYS Workbench
- ANSYS APDL

Programming :
- Python
- Java
- C++
- Data Structures

Professional Experience

05/2025 – 05/2025
Chennai, India
Research and Development Intern
• Assisted in Forging Stage Design & CAD Modeling.
• Analyzed Material Flow & Defect Prediction via Simulation.
• Optimized Process Parameters & Documented Process Sheets.

06/2024 – 07/2024
Chennai, India
Student Intern
Certificate and Report
• Trained in ANSYS Workbench with real-time simulation of marine energy components
• Analyzed OTEC & LTDD beam structures for strength and efficiency
• Optimized material performance through simulation and research

Projects

01/2025 – 03/2025 **Solar Dryer with concave fins and Phase change material in cylindrical storage**

Designed a solar dryer utilizing forced convection, concave fins, and phase change material (PCM) for enhanced drying efficiency. The concave fins increase heat transfer, while forced convection accelerates moisture removal. PCM ensures consistent heat retention,maintaining drying performance even during low sunlight periods. This system improves drying rate, reduces energy loss, and enhances overall efficiency.

Patents

01/2025 – 03/2025 **Solar Dryer with concave fins and pcm in cylindrical storage**
(Applied)

11/2023 – 01/2024 **Multipurpose Knife**
(Issued)

Certificates

- Advanced Machining Process - NPTEL
- 3d Model creation with Autodesk Fusion 360
- Complete Course in Creo Parametric
- MATLAB Onramp
- Additive Manufacturing - University of Michigan
- Geometric Dimenionsing and Tolerancing(GD&T)-Udemy
- Fundamentals of Materials Science-Shanghai Jiao Tong University

Organisations

ISHRAE (Indian Society of Heating, Refrigerating and Air Conditioning Engineers)
Member
- Organized technical events and workshops on HVAC&R.
- Networked with industry experts and peers.
- Promoted energy-efficient HVAC solutions.

Workshops and seminar

Advanced Industrial Automation in Pneumatic and Hydraulics

Basics of Air Conditioning and VRF Technology (ISHRAE)

Design Thinking and why it is important

Role of Intellectual Property Rights in Fostering Research and Development

Languages

English
Fluent

Tamil
Native Billingual

Declaration

I hereby declare that the information provided above is true to the best of my knowledge and belief. I take full responsibility for the accuracy of the details mentioned.

M. Viswa