



VISWA M

viswamathanagopal@gmail.com | +91 6369905438

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PROFILE SUMMARY

Mechanical Engineer with expertise in product design, analysis, and automation, integrating mechanical engineering principles with computer science. Skilled in CAD tools and proficient in Python, C++, Java, and MATLAB for simulation, automation, and computational analysis. Experienced in applying CFD and FEA visualization techniques, along with Python-powered automation for mechanical systems. Strong focus on precision, efficiency, and innovative problem-solving in collaborative engineering environments.

EDUCATION

Sri Krishna College of Technology, Coimbatore, India B.E Mechanical Engineering (CGPA-7.50)	2022 - 2026
Alagar Public School (CBSE), Tuticorin, India 12 th (Percentage – 60.6 %)	2021- 2022
Amrita Vidyalayam (CBSE), Ramnad, India 10 th (Percentage – 77.6 %)	2019- 2020

SKILLS

- **Design:** AutoCAD, SolidWorks, Siemens NX, CATIA
- **Analysis:** Ansys Workbench, Ansys APDL
- **Programming:** Python, C++
- **Core Areas:** Product Design, Simulation, CFD, FEA, Automation
- **Soft Skills:** Problem-solving and Team collaboration, Adaptability & Quick Learning Time Management & Prioritization

PROFESSIONAL EXPERIENCE

- **Research and Development Intern** May 2025- May 2025
Super Auto Forge Pvt. Ltd., Chennai, India
 - Assisted in forging stage design, die/tool development, and CAD modeling using Siemens NX.
 - Conducted material flow and defect prediction simulations in DEFORM & Simu fact.
 - Gained practical exposure to cold/warm forging operations, billet preparation, phosphating, coating
 - Optimized process parameters, cycle time, and documented process sheets for improved efficiency.
- **Student Intern** June 2024 – July/2024
National Institute of Ocean Technology, Chennai, India
 - Trained in ANSYS Workbench for simulation of marine energy components.
 - Analyzed structural strength and efficiency of OTEC & LTTD systems, including flash chambers made from Structural Steel, Aluminum Alloy, and Grey Cast Iron.
 - Researched material performance optimization for sustainable ocean energy and freshwater production.

PROJECTS

- **Solar Dryer with Concave Fins and PCM Storage** January 2025 – March 2025
Sri Krishna College of Technology, Coimbatore, India
 - Designed and developed a solar dryer with concave fins and PCM storage for improved thermal performance.
 - Implemented forced convection to enhance drying rate and energy efficiency.
 - Evaluated system performance, achieving higher efficiency and reduced energy loss.
- **Laser-Cladded Stellite 6 Coating on Cu-W Alloy for Pantograph Applications** June 2025 – Ongoing
Sri Krishna College of Technology, Coimbatore, India.
 - Initiated study on applying laser cladding to enhance surface properties of Cu-W alloy.
 - Conducting literature review and problem definition for pantograph contact applications.
 - Involved in experimental planning, including selection of materials, laser parameters, and testing methods.
 - Preparing methodology for microstructural, mechanical, and wear analysis to evaluate coating performance.

PATENTS

- **Multi-Purpose Knife**
(Design Patent -Granted) November 2023- January 2024
Sri Krishna College of Technology
- **Solar Dryer with concave fins and PCM in cylindrical storage** January 2025- March 2025
(Utility Patent -Applied)
Sri Krishna College of Technology

CERTIFICATIONS

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

ORGANIZATIONS

- **ISHRAE (Indian Society of Heating, Refrigerating and Air Conditioning Engineers)** June 2025 – Ongoing
Member- Sri Krishna College of Technology, Coimbatore, India
 - Organized technical events, workshops, and knowledge-sharing sessions focused on HVAC&R technologies.
 - Collaborated and networked with industry professionals, faculty, and peers to enhance learning exposure.
 - Actively promoted energy-efficient and sustainable HVAC solutions through events and awareness activities.

LANGUAGES KNOWN

- English
- Tamil