

HASSAN IBRAHIM

Mechanical Engineer

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PROFILE

Mechanical Engineer with experience in CAD design and manufacturing processes. Skilled in optimization techniques and technical drawing. Seeking opportunities to apply expertise in mechanical design, electro-mechanical systems, automation, and process optimization while contributing to organizational growth.

PROFESSIONAL EXPERIENCE

AutoCAD Supporter

Rufous Construction

Nov 2020 - Present

Tenkasi, Tamil Nadu

- Analyzed and implemented technical drawing modifications to improve accuracy and functionality
- Enhanced drawings for clarity, compliance, and practical application in construction projects
- Provided innovative ideas to optimize design efficiency and project feasibility
- Managed stock and material requirements, ensuring timely availability for projects
- Coordinated client meetings to discuss contracts, fostering trust and long-term collaboration

Non-Destructive Testing Intern

Armstech Engineering Pvt. Ltd

Oct 2022

Kochi

- Conducted Liquid Penetrant Testing (LPT) and Magnetic Particle Testing (MPT) on welded samples
- Identified surface and subsurface defects to ensure weld integrity and quality

EDUCATION

Bachelor of Technology in Mechanical Engineering

Musaliar College of Engineering

2024

Pathanamthitta, Kerala

Diploma in Engineering – 86%

S.Thangapazham Polytechnic College

2020

Vasudevanallur, Tamil Nadu

PROJECTS & RESEARCH

Optimizing Material Removal Rate & Surface Roughness in Wire-Cut EDM

University-Funded Research Project

2024

- Led research applying the Taguchi Method, S/N Ratio, and ANOVA for optimization
- Analyzed parameters for Ti-6Al-4V material processing using wire-cut EDM
- Published findings in a journal on material removal rate and surface roughness optimization

PROFESSIONAL DEVELOPMENT

Industrial Product Design and Analysis
SMEC Automation Pvt. Ltd

Jul 2024 - Jan 2025
Online Course

TECHNICAL SKILLS

Design Software: AutoCAD, SolidWorks, ANSYS Design Software

Testing Methods: Liquid Penetrant Testing (LPT), Magnetic Particle Testing (MPT)

Programming: Python (basics), PLC Programming (basics)

Office Tools: Microsoft Office, Google Workspace

ACHIEVEMENTS

- Awarded competitive university funding for final-year research project
- 2nd place in Kalasalingam Institute of Technology CAD Design Contest (2024)

CORE COMPETENCIES

- Quick Learning
- Adaptability
- Teamwork
- Problem-Solving

LANGUAGES

Tamil

Malayalam

English

Hindi

REFERENCES

Prof. Smitha G
Assistant Professor
Musaliar College of Engineering

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