ANEEZ HASSAN

(Robotics and Automation Engineer)

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Engineering student with skills in C++, Python, IoT, ROS, and machine learning, supported by hands-on experience in AI, robotics, automation, and simulation projects. Passionate about applying technical knowledge to solve real-world problems and exploring emerging technologies.

EDUCATION

BE- Robotics and Automation (2022 – 2026)
Sahyadri College of Engineering and Management, Mangaluru CGPA: 8.00

PUC- PCMB (2020 – 2022)
Mahatma Gandhi Memorial College, Udupi Percentage: 82.66

SSLC (2019 – 2020)
AL-Ihsan Academy School, Muloor Percentage: 93.76

WORK EXPERIENCE

Machine Learning Intern Aug 2025 – Sept 2025
Skillcraft Technology | Remote

- Developed and tested ML models for data analysis and prediction tasks.
- Applied algorithms like regression, classification, and clustering using Python.

Generative AI Intern Aug 2025 – Sept 2025
Prodigy Infotech | Remote

- Worked on projects involving Generative AI, LLMs, and prompt engineering.
- Gained practical exposure to AI-driven automation and problem-solving.

Python Programming Intern Aug 2025 – Sept 2025
Oasis Infobyte | Remote

- Built beginner-level projects like Voice Assistant and Weather App.
- Gained hands-on experience with Python, APIs, and GitHub version control.

Founder & Tutor – Gradeup Coaching Class May 2020 – April 2025

- Running a coaching center for SSLC, PUC, and KCET students with 5+ years of teaching experience.
- Developed strong mentoring, leadership, and communication skills by guiding students through academic and competitive exams.

PROJECTS

- **Intelligent Material Identification and Mechanical Property Prediction** – Built an AI model to detect materials and predict properties like tensile strength and hardness using image processing and databases.
- **Fine-tuning GPT-2 for Text Generation** – Fine-tuned GPT-2 on a custom dataset to generate context-aware text, gaining experience in NLP and transformers.
- **Hand Gesture Recognition using Machine Learning** – Developed a model to classify real-time hand gestures using computer vision and ML algorithms.

- **Forward and Inverse Kinematics for 5 DOF Robot** – Implemented robotic kinematics using mathematical modelling and simulation for precise motion control.
- **Design and Development of Autonomous Grass Cutting Machine** – Designed and built a mechatronic system for autonomous grass cutting, integrating sensors, motors, and control logic.

CERTIFICATIONS

- AINNOVATION 2025: Applied AI Learning Challenge – *Microsoft*
- AI Engineer – *OneRoadmap*
- Generative AI Internship Program – *Edureka*
- Fine-tuning & GenAI courses (Introduction to Generative AI / LLMs / Responsible AI) – *Google Cloud Skills Boost*
- Workshop on Introduction to Robotics, ROS & AI – *Think Again Lab*
- ROS 2 New Features – *Infosys Springboard*
- Introduction to IoT – *Cisco*
- Mechatronics – *IIT Roorkee*
- Introduction to Applied Machine Learning – *Alberta Machine Intelligence Institute (Amii)*
- Python for Data Science, AI & Development – *IBM*
- Foundations of Project Management – *Google*
- Automation Design & Robotics – *Skillsoft*
- Getting Started with Ansys Mechanical – *ANSYS*
- Bootcamps (VLM/ OpenCV/ PyTorch/ TensorFlow-Keras) – *OpenCV University*

CO-CURRICULAR ACTIVITIES

- **QUEST 2026 Lumen Hackathon – *Lumen Technologies***: Developed innovative solutions in a competitive hackathon environment, showcasing teamwork and problem-solving skills.
- **Robotics and Controls Job Simulation – *Johnson & Johnson MedTech***: Gained hands-on experience in robotics control systems and industrial applications.
- **GenAI Powered Data Analytics Job Simulation – *Tata Group***: Applied Generative AI techniques for data-driven insights and analytics.
- **Advanced Manufacturing: Quality Control Job Simulation – *City of Moreton Bay***: Practiced industry-level quality control processes in advanced manufacturing.
- **Operations Industrial Engineer Job Simulation – *Siemens***: Learned key concepts of operations and industrial engineering through real-world simulations.

SKILLS

- **Programming & Tools**: Python, C++, MATLAB, ROS, OpenCV, TensorFlow, PyTorch, Scikit-learn, Power BI
- **AI & Machine Learning**: Generative AI, NLP, Computer Vision, Neural Networks, Model Fine-Tuning, SVM, Data Analysis
- **Robotics & Simulation**: Forward & Inverse Kinematics, Autonomous Systems, Robot Simulation, SolidWorks, ANSYS, Fusion 360
- **Mechanical & QA**: CAD Design, FEA, Stress Analysis, Quality Control, Industrial Automation, Mechatronics
- **Other Skills:** Project Management, Problem-Solving, Research & Documentation, Team Collaboration