

Amjad Mohamed Nabeel J

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Professional Summary

Mechatronics and DevOps Engineer with strong expertise in robotics, embedded systems, and interactive technologies. Adept at combining hardware engineering with cloud infrastructure, automation, and DevOps tools. Proven experience across R&D, prototyping, and full-stack mechatronics systems with emerging capabilities in cloud-native development and infrastructure as code.

Professional Experience

Rightsource LLC, Dubai

Mechatronics Engineer

📅 June 2024 – Present

- Developing interactive sensor-based kiosks using embedded systems
- Supporting infrastructure automation for deployments using Ansible and cloud tools

Aravez DMCC, Dubai

Mechatronics Engineer

📅 Oct 2023 – Feb 2024

- Designed aerostat systems with embedded control and telemetry
- Collaborated with DevOps team on deployment pipelines for firmware updates

Shokon Auto, Dubai

Mechatronics Engineer Intern

📅 Sept 2023

- Designed and programmed automotive embedded systems
- Participated in hardware-in-the-loop (HIL) testing and version control using Git

Evobi Automations Pvt Ltd (BIBOX), Bangalore

Robotic Mentor


📅 Nov 2022 – Feb 2023

- Delivered training on robotics, IoT, drones, and cloud control

- Introduced students to cloud robotics and Python scripting

Enstein Automation and Robotics Pvt Ltd, Chennai


Robotics Engineer – R&D

 Sep 2022 – Oct 2022

- Prototyped robotic arms with ROS and RViz
- Integrated cloud-based logging for diagnostics

Atum Robotics, Chennai


Robotics Engineer Intern

 May 2022 – Aug 2022

- Developed interactive robots for commercial spaces using ROS
- Focused on autonomous behavior and feedback systems

IETE & PanTech (Remote)

Machine Learning Intern

 Jun 2021 – Jul 2021

- Implemented ML models using Python on real-world datasets

TI Anode Fabricators Pvt Ltd, Chennai

Intern – Technical Support Dept

 Dec 2019

TransTunnelStroy-AFCONS JV (Chennai Metro Project)



Intern – Civil/Mechatronics

 Jun 2019

Education

B.Tech in Mechatronics Engineering

Hindustan Institute of Technology and Science

 Graduated: 2022 |  Percentage: 81%

Skills

DevOps & Cloud

- **AWS:** EC2, IAM, S3
- **Infrastructure as Code (IaC):** Terraform

- **Configuration Management:** Ansible
- **CI/CD & Scripting:** Git, GitHub Actions, Bash
- **Containers & Deployment:** Docker (basic), Cloud-based device logging

Programming

- Python, C, C++, C#, MATLAB, Embedded C
- ROS, OpenCV, TensorFlow, PyTorch, Pandas, Numpy, Scikit-learn

Embedded & Robotics

- Arduino, STM32, ESP, Raspberry Pi, Nvidia Jetson
- ROS/ROS2: SLAM, EKF, MoveIt, AMCL, Lidar
- Drone tech: PX4, Ardupilot, Pixhawk

Software & Design Tools

- STM32CubeMX, Arduino IDE, MPLAB X, SolidWorks, AutoCAD, Fusion 360
- KiCAD, Eagle, Altium, Unity 3D (XR/MR/VR)

IoT & Communication

- LoRa, MQTT, WiFi, Bluetooth, CAN, GSM, KNX

Fabrication & Automation

- 3D Printing, Laser Cutting
- PLC (Delta), SCADA, LabVIEW

Certifications

- Artificial Intelligence Masterclass – Ureka
- Machine Learning using Python – IETE & PanTech
- AWS Machine Learning – Amazon Web Services
- Applied Industrial IoT – L&T EduTech
- Python Programming – Google
- Diploma in Robotic Process Automation (RPA)
- Game Development – Michigan State University (Coursera)
- NASA Space Apps Challenge 2020 – Participant