Amjad Mohamed Nabeel J

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LinkedIn

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



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

Aravez DMCC, Dubai

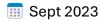
Mechatronics Engineer



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

Shokon Auto, Dubai

Mechatronics Engineer Intern



- 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

Mov 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

- - 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

- IIII Jun 2021 Jul 2021
 - Implemented ML models using Python on real-world datasets

TI Anode Fabricators Pvt Ltd, Chennai

Intern – Technical Support Dept

m Dec 2019

TransTonnelStroy-AFCONS JV (Chennai Metro Project)

Intern – Civil/Mechatronics

III 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, Movelt, 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