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Professional Summary

Mechatronics and DevOps Engineer with a strong foundation in embedded systems, IoT, cloud infrastructure, and automation. Experienced in building and deploying interactive, sensor-based systems with modern DevOps tools. Proven expertise in robotics, firmware integration, and smart energy solutions—well aligned with Building-as-a-Grid and IoT innovation ecosystems.

Professional Experience

Rightsource LLC, Dubai
Mechatronics Engineer | **Jun 2024 – Present**

- Built interactive kiosk systems using embedded microcontrollers and sensors.
- Deployed infrastructure automation with **Ansible** and integrated cloud logging systems.
- Supported deployment and integration testing for customer-facing smart devices.

Aravez DMCC, Dubai
Mechatronics Engineer | **Oct 2023 – Feb 2024**

- Developed **aerostat control systems** with telemetry and embedded firmware.
- Assisted DevOps pipeline integration for firmware delivery and system updates.

Shokon Auto, Dubai
Mechatronics Intern | **Sept 2023**

- Designed automotive embedded systems using C and RTOS.
- Participated in **HIL testing** and version control practices via Git.

Evobi Automations Pvt Ltd (BIBOX), Bangalore
Robotics Mentor | **Nov 2022 – Feb 2023**

- Trained students on **robotics, drones, IoT**, and **cloud control**.
- Demonstrated basic **Python scripting** for edge-to-cloud systems.

Enstein Automation & Robotics, Chennai
R&D Robotics Engineer | **Sep 2022 – Oct 2022**

- Developed robotic arms with **ROS** and simulated behaviors in RViz.

- Integrated cloud-based diagnostics and remote monitoring tools.

Atum Robotics, Chennai
Robotics Engineer Intern | **May 2022 – Aug 2022**

- Engineered interactive ROS-based robots for commercial settings.

- Focused on autonomous navigation, feedback systems, and Lidar data fusion.

IETE & PanTech (Remote)
ML Intern | **Jun 2021 – Jul 2021**

- Built and deployed Python-based machine learning models on industry datasets.

TI Anode Fabricators Pvt Ltd, Chennai
Technical Support Intern | **Dec 2019**

TransTonnelStroy-AFCONS JV (Chennai Metro)
Civil/Mechatronics Intern | **Jun 2019**

Education

B.Tech – Mechatronics Engineering
Hindustan Institute of Technology and Science | **Graduated 2022**
Score: 81%

Key Skills

Firmware, Embedded & IoT

- **C, C++, Embedded C, Python, Bash**

- **STM32, Arduino, ESP, Raspberry Pi, Nvidia Jetson**

- **ROS/ROS2**, Lidar, SLAM, AMCL, MoveIt

- **PX4, Ardupilot, Pixhawk** for drones

- **LoRa, MQTT, BLE, CAN, GSM, KNX**

DevOps & Cloud

- **AWS (EC2, IAM, S3)**

- **Terraform** – Infra as Code

- **Ansible** – Configuration Management

- **Git, GitHub Actions**, CI/CD

- **Docker (Basic)**, device-to-cloud pipelines

Tools & Simulation

- **STM32CubeMX, Arduino IDE**

- **SolidWorks, Fusion 360, AutoCAD**

- **KiCAD, Eagle, Altium Designer**

- **Unity 3D (XR/MR/VR), LabVIEW**

Automation & Industry

- **PLC (Delta), SCADA Systems**

- 3D Printing, Laser Cutting

- Cross-compatibility focus for **Building-as-a-Grid systems**

Certifications

- **Artificial Intelligence Masterclass** – Ureka

- **Machine Learning with Python** – IETE & PanTech

- **AWS Machine Learning** – AWS

- **Applied Industrial IoT** – L&T EduTech

- **Python Programming** – Google

- **Diploma in Robotic Process Automation (RPA)**

- **Game Development** – Michigan State Univ (Coursera)

- **NASA Space Apps Challenge 2020** – Participant