

GHOUSE MOHIDEEN

Al Ain, United Arab Emirates
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Professional Summary

Electronics Engineer with 7+ years of experience in embedded systems, hardware development, and R&D for autonomous vehicles, smart wearables, and energy systems. Proven expertise in full product life cycle—from prototyping to manufacturing. Strong hands-on experience in PCB design, embedded programming, and electronics troubleshooting. Known for rapid prototyping, innovative problem solving, and project delivery in high-stakes environments.

Core Competencies

- Embedded Systems Design
- PCB Design & Debugging
- Prototyping & R&D
- Power Electronics
- Microcontrollers (ARM, AVR, etc.)
- Battery Systems & Supercapacitors
- IoT Device Development
- Hardware Testing & Validation
- Technical Documentation
- AutoCAD | Altium | KiCAD | OrCAD | Eagle
- Programming: Embedded C, C/C++
- Communication Protocols: UART, SPI, I2C, CAN, MODBUS

Professional Experience

Navcon Advanced Systems LLC – Al Ain, UAE

Senior Embedded Systems Engineer (R&D) Aug 2023 – Present

- Led the design and prototyping of electronics and battery systems for Autonomous Unmanned Ground Vehicles (UGV) used in defense surveillance.
- Developed smart wearable devices including military-grade smartwatches and helmets with sensor integrations.
- Proposed and validated new product ideas for feasibility, testing, and production scalability.
- Created specialized testing equipment to validate new hardware.

- Managed PCB and schematic designs to improve efficiency and meet client-specific requirements.

Key Projects:

- - PCB & Power System Design for Military UGV
- - Smart Helmet and Smart Watch Development

Amber and Waseem General Trading LLC – Dubai, UAE

Electronics Engineer (R&D) Apr 2019 – Jul 2023

- Designed solar-powered systems and supercapacitor-based modules for off-grid and telecom backup applications.
- Built and validated charging/discharging units at various C-rates for energy efficiency analysis.
- Diagnosed and repaired PCBs at component level; built and tested multiple prototypes.
- Maintained log and repair reports for debugging cycles.

Key Projects:

- - 384V 1MWh Microgrid System for NEOM
- - 7KWh 48VDC Super Capacitor System for Etisalat Data Center

Sertel Electronics Pvt Ltd – Chennai, India

Project Engineer Jan 2018 – Mar 2019

- Engineered automation projects for clients like NTPC and BHEL including Furnace Cameras, Flame Scanners, and Sensors.
- Created AutoCAD wiring and logic diagrams, BoMs, and system schematics for industrial control systems.
- Responded to client RFQs and revised system documentation based on design iterations.

HK Telecommunications – Chennai, India

Junior Engineer Jul 2017 – Jan 2018

- Developed AutoCAD cable routing plans for high-rise buildings (Vodafone, Airtel projects).
- Supervised fiber optic cable laying and performed site surveys and manpower planning.

Project Highlights

- Developed electronics and battery systems for a defense UGV showcased at World Defense Show 2024 in Riyadh.
- Built a smartwatch system to support military training, also exhibited at WDS 2024.
- Designed and deployed an online solar energy monitoring system.
- Developed fast EV chargers with IoT integration.
- Built single-cell charger/discharger units for battery testing at various C-rates.
- Engineered modular daisy-chain systems for battery packs.

Education

Bachelor of Engineering in Electrical & Electronics Engineering
Mohammed Sathak A.J College of Engineering, Chennai | 2013 – 2017

High School (Class XII)
Sir Sivaswami Kalalaya Hr. Sec. School, Chennai | 2013

Certifications

- AutoCAD 2015
- OrCAD PCB Design

Languages

English | Hindi | Urdu | Tamil

Additional Information

Marital Status: Single
Driving License: Valid (UAE)
Passport: R3737026 | Expiry: 06/08/2027