

ATTA UL HALEEM

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EDUCATION

Télécom SudParis, Institut Polytechnique de Paris

Évry, France

Master of Science in Electrical Engineering (M1)

Sep 2025 - Present

Track DATA Analysis and Pattern Classification (Datapac)

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology

Topi, Pakistan

Bachelor of Science in Electrical Engineering (Electronics)

Aug 2019 - Jun 2023

CGPA 3.24/4.00

Societies Team Foxtrot (Worked on UAVs)

Electives Embedded Systems, Digital System Design, Intro to Robotics

EXPERIENCE

Motive Technologies Inc.

Lahore, Pakistan (Remote)

QA Engineer, Embedded

Jun 2025 - Aug 2025

- Wrote Python scripts to simulate and automate testing of automotive ECU CAN signals.
- Parsed and decoded raw CAN frames (J1939, J1979) to extract proprietary vehicle data.

Software Motion Engineering Services Co., Ltd

Suzhou, China (Remote)

Embedded Software Engineer

Oct 2024 - Jun 2025

- Implemented comprehensive unit tests using GoogleTest and CppUTest to ensure code reliability.
- Engineered C++ state machines for critical L1-L2 ADAS functionalities (ABS, LDW, FCW).
- Designed and built a robust FOTA solution for automotive ECUs, adhering to ISO-15765 & ISO-14229 standards.

Lahore University of Management Sciences (LUMS)

Lahore, Pakistan

Research Associate, Department of Computer Science

Sep 2023 - Apr 2024

- *Smart Energy Meter*: Implemented FOTA, file transfer over MQTT, and web dashboard for data analytics.
- *Water Tank Monitor*: Developed an ESP8266-based low-power monitor, integrating ultrasonic sensors and Firebase RTDB for data sync.
- *Electric Rickshaw*: Designed a GPS tracker for real-time location and mileage tracking. Implemented custom MODBUS commands for intra-vehicle communication.

PROJECTS

- **Omni-directional Cellular Conveyor with Computer Vision**
Raspberry Pi 4 based modular conveyor system.
- **Smart Dumbbell**
Real-time exercise classification using Arduino Nano 33 BLE Sense and TinyML.
- **Maze Solving Robot**
Arduino Nano based robot for mapping and traversing closed mazes.

SKILLS

Programming Languages

C, C++, Python

Networking Protocols

WiFi, BLE, HTTP, MQTT

Embedded Protocols

UART, I²C, SPI, CAN

MCUs/SBCs

Arduino, Raspberry Pi, ESP8266, ESP32, nRF52, PIC18, STM32

Languages

Urdu (Native), English (C1), French (A1)