

ATTA UL HALEEM

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EDUCATION

Télécom SudParis, Institut Polytechnique de Paris	Évry, France
<i>Master of Science in Electrical Engineering (M1)</i>	<i>Sep 2025 - Present</i>
Track	DATA Analysis and Pattern Classification (Datapac)
Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Topi, Pakistan
<i>Bachelor of Science in Electrical Engineering (Electronics)</i>	<i>Aug 2019 - Jun 2023</i>
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)
<i>QA Engineer, Embedded</i>	<i>Jun 2025 - Aug 2025</i>
• 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)
<i>Embedded Software Engineer</i>	<i>Oct 2024 - Jun 2025</i>
• 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
<i>Research Associate, Department of Computer Science</i>	<i>Sep 2023 - Apr 2024</i>
• <i>Smart Energy Meter:</i> Implemented FOTA, file transfer over MQTT, and web dashboard for data analytics.	
• <i>Water Tank Monitor:</i> Developed an ESP8266-based low-power monitor, integrating ultrasonic sensors and Firebase RTDB for data sync.	
• <i>Electric Rickshaw:</i> 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, I ² C, SPI, CAN
MCUs/SBCs	Arduino, Raspberry Pi, ESP8266, ESP32, nRF52, PIC18, STM32
Languages	Urdu (Native), English (C1), French (A1)