

ISLAM WAHDAN

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Embedded software developer

WHO AM I?

I have over 12 years of experience developing embedded software across Automotive, IoT, and Light EV domains. My expertise spans low-level firmware, communication protocols, and real-time systems. As a certified software architect, I focus on robust software design, scalability, and maintainability. Known for strong analytical and debugging skills, I excel at solving complex technical issues and optimizing embedded systems for performance and reliability.

C C++ SW design/Arch Embedded Linux Scripting/Automation Debugging Git Embedded SW RTOS
IoT Automotive

EXPERIENCE

10/2025 – present **CorEmbed**

Embedded SW developer and Founder

I help companies bring their hardware to life through robust, efficient, and scalable firmware and embedded software solutions.

4/2021 – 10/2025 **Dott - Tier**

Senior embedded SW engineer

Working in a team responsible of developing a high end IoT solution for electric micro-mobility vehicles (E-Scooter and E-Bikes) worked on Telemetry modules, Vehicle control unit and BMS (Battery management system)

IoT Microchip ARM Cortex-M Device drivers LTE BLE CAN Cmake Crypto Bootloader Secure boot
RTOS MQTT HMI OTA GPS

11/2019 – 4/2021 **Etergo B.V.**

Senior embedded SW engineer

Member of a small team responsible for development/testing and maintaining the SW for different ECUs in the company's first EV product (The AppScooter)

NXP ARM Cortex-M Device drivers CAN LIN HMI LTE FreeRTOS MQTT BMS

5/2018 – 11/2019 **Pycom B.V.**

Lead Embedded SW Engineer

Leading Firmware Development activities for Pycom IoT products.
Development and maintenance of Firmware for Pycom IoT development boards and OEM projects Integration.
Leading Scrum process and interaction with Customers and providing support for Integration and Issues debugging.

ESP32 Micropython BLE LTE LoRa OTA Ethernet Device drivers GPS FreeRTOS

2/2017 – 5/2018 **ICT Automatisering B.V.**

Software Designer

Contributed to the development of an in-car Connectivity Box with emergency call functionality for Audi, as part of a 10-member Scrum team. Worked on AUTOSAR 3.2

AUTOSAR Device drivers Embedded linux RTOS

10/2013 – 2/2017

Valeo

Senior Embedded Software Engineer

Worked on multiple automotive projects (Renault, Daimler, Volkswagen, Toyota) with focus on AUTOSAR integration, driver development, diagnostics, and HW-SW integration. Hands-on experience in communication stacks, OS configuration, and debugging. Delivered process improvements by developing automation tools in Perl and C++.

AUTOSAR Device drivers OBD CAN RTOS LIN

1/2016 – 6/2016

Freelance

Software developer

Development (using C# and MySQL) and deployment of a POS : Point of Sale System for a big Restaurant in Cairo.

C# MySQL NET

EDUCATION

2005 – 2011

German university in Cairo

Bachelor's Degree in Mechatronics engineering

Overall Degree: Very Good with Honors , GPA:1.62

CERTIFICATES

2025

ISAOB - Certified Professional for SW Architecture

Link to Certificate

2025

Bootlin - Embedded linux System development

LANGUAGES

English - Bilingual

Arabic - Native

Dutch - Basic

HOBBIES

I love playing squash and PC games :)