

Omar Mahmoud



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<https://masriomarm.github.io>

Summary

Software development, debugging & troubleshooting of bare-metal applications.

Developed low-level drivers and embedded software in C/C++ for different sensors and microcontrollers.

GNU/Linux, Ubuntu user.

Basic knowledge with CMake, GNU Make.

Familiar with MATLAB, GNU Octave & Python.

Interested in Control systems engineering, Robotics, Embedded systems, Mechatronics.

Experience



Design Engineer

DezignArena

Aug 2021 - Present (11 months +)

Engineered embedded software development, debugging & troubleshooting of bare-metal applications for 3 projects.

Delivered around 3 low-level drivers based on I2C, SPI, UART for different sensors and microcontrollers in C/C++.

Optimized a product design, saving 20% of the actuators in a project, internal components space, driver circuitry space on the PCB and reducing Firmware complexity.



Design Engineer

iHub: Innovation Hub

Mar 2020 - Jul 2021 (1 year 5 months)

Directed mechatronics design and integration of subsystems for 3 projects.

Restructured a pneumatic circuit of a project, cutting 30% of development effort and increased output accuracy to match a Fluke gas analyzer.



Design Engineer

BEEC

Aug 2018 - Mar 2020 (1 year 8 months)

Designed consumer electronics products enclosure of 3 projects.

Extracted PCB boundaries, connectors placement for HW team for around 5 PCBs.



Design Engineer

BEEC

Jul 2018 - Aug 2018 (2 months)

Implemented 100% of product's CAD models excluding standard parts as a freelance contract.

Delivered 100% of developed parts shop drawings as a freelance contract.



Academic Committee Member

Assiut Robotics

Apr 2015 - Jul 2017 (2 years 4 months)

Guided freshmen students with technical knowledge to participate in competitions.

Built a minesweeper rover and took part in national competition.

Education



Assiut University

Bachelor's Degree, Mechatronics, Robotics, and Automation Engineering

Sep 2013 - Jun 2018

Cumulative Grade: Very good, 2nd Top

Skills

Embedded Systems • Embedded Software • Microcontrollers • Serial Communications • GNU/Linux •
Vim • Git • Mechatronics • Control Systems Design