

Omar Mahmoud

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- Knowledge in Embedded systems concepts and Microcontrollers architectures & peripherals
- Real time operating systems understanding
- Knowledge of design patterns
- State machine design and development logic
- Knowledge of software engineering development methodology

Work Experience

Design Engineer | DeziArena

August 2021 – Present

- Engineered embedded software development, debugging & troubleshooting of bare-metal applications for 3 projects.
- Delivered 3 low-level drivers based on I2C, SPI, USART for different sensors and micro-controllers in C.
- Optimized a design, saving 20% of the actuators required, internal components space, driver circuitry space on the PCB and reducing Firmware complexity.

Design Engineer | iHub: Innovation Hub

March 2020 – July 2021

- Directed mechatronics design and integration of subsystems for 3 projects.
- Restructured a design, cutting 30% of development effort and increased output accuracy to match a Fluke gas analyzer.

Design Engineer | BEEC

August 2018 – March 2020

- Designed consumer electronics products enclosure of 3 projects.
- Extracted PCB boundaries, connectors placement for HW team for around 5 PCBs.

Skills

- **Programming Languages:** C, Embedded C, C++, Rust, Python.
- **Software:** GNU/Linux, Ubuntu, Git, Vim, QEMU, CMake, GNU Make.
- **Hardware:** STM32, ARM Cortex-M4, ARM Cortex-M3, AVR

Education

Assiut University

September 2013 – June 2018

B.Sc. in Mechatronics Engineering.

Cumulative Grade: Very Good, 2nd Top.

Graduation project

Grade: Distinct

Low cost robotic gloves for people with disabilities based on Arduino Uno.

Personal info

Cairo, Egypt | Military service: completed | Birthdate: Dec 1995 | Graduated in 2018