

Omar Mahmoud Elmasri

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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

Embedded Software Engineer | Elsewedy Electrometer Group **August 2022 – Present**

- Maintained legacy C99 code base, resolved 60+ bugs.
- Enhanced low power mode performance and steady state consumption up to 75% less.

Embedded Software Engineer | DeziignArena **August 2021 – July 2022**

- Engineered embedded software development, debugging & troubleshooting of bare-metal applications for 3 projects.
- Delivered 2 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, 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