Omar Mahmoud

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- Software development, debugging & troubleshooting of bare-metal applications.
- Developed low-level drivers and embedded software in C for different sensors and microcontrollers.
- Interested in Control systems engineering, Robotics, Embedded systems, Mechatronics.

Work Experience:

Design Engineer | DezignArena   August 2021 – Present
- Engineered embedded software development, debugging & troubleshooting of bare-metal applications for 3 projects.
- Delivered around 3 low-level drivers based on I2C, SPI, USART for different sensors and micro-controllers 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   March 2020 – July 2021
- Directed mechatronics design and integration of subsystems.
- 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   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++, familiar with MATLAB, GNU Octave & 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.

Personal info:

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