SALAH-ELDIN HASSEN

salah1423161@gmail.com – Giza / Egypt - (+20) 1127709232
https://www.linkedin.com/in/salah-eldin-hassen-5bba10250/ - https://github.com/salah0eldin

EDUCATION

▪ Cairo University Faculty of Engineering, Department of Electronics and Electrical Communication Engineering (CUFE EECE).

WORK EXPERIENCE

▪ Robotics & Embedded Instructor // Beta Engineering Training Academy // Seasonal // Jan 2023 - Present.
Teaching both Arduino and AVR embedded systems, starting as technical support then becoming the main instructor for 600+ students.
▪ Coding AI Trainer // Outlier // Freelancing // Nov 2024 – Dec 2024.
Teaching and optimizing AI models for coding tasks by training, evaluating outputs, and refining models.
▪ Data Entry Clerk // Covo Connect // Full time // Jun 2023 - Jul 2023.
Entering banking data from photos to text, improving touch-typing skills.

SKILLS

▪ Web: HTML5, CSS3, JavaScript, Bootstrap, jQuery, Laravel, SQL
▪ Software: C / C++, OOP, MATLAB, Assembly, Rust, Data Structures, Algorithms, Python, Automation, Scripting, Kali Nethunter, Ubuntu, Debian, CentOS, AI tools, Qt, Git & Git-Hub, Latex
▪ Embedded: Atmega16/32 (AVR), PIC18F2XK20/4XK20 (PIC), STM32, Fundamentals of Embedded Systems, ARM Cortex-M Architecture, Embedded C, FreeRTOS, SOMEIP
▪ Digital: HDL languages (VHDL, Verilog, System Verilog)

PROJECTS

▪ Laravel Workshops System
  • **Description:** Developed a Laravel-based system to manage workshop sessions, including scheduling, registration, and attendance tracking.
  • **Key Elements:** Laravel, PHP, MySQL, Bootstrap, Git
▪ Concurrent Rust TCP Server
  • **Description:** Multithreaded TCP server in Rust with optimized testing.
  • **Key Elements:** Rust, Multithreading, Protocol Buffers
▪ SFML Chess Game
  • **Description:** Chess game in C++ using SFML.
  • **Key Elements:** C++, SFML
▪ FreeRTOS Door Locker
  • **Description:** Door security system with FreeRTOS and I2C.
  • **Key Elements:** ATMega32, I2C, FreeRTOS
▪ Digital Multimeter
  • **Description:** PCB-based multimeter for voltage, current, and resistance.
  • **Key Elements:** ATMega32, PCB, ADC

COURSES

▪ Linux Fundamentals
  • **Description:** Course covering Linux basics, file management, shell scripting, process control, and web server setup.
▪ SOME/IP Workshop
  • **Description:** SOME/IP protocol workshop.
▪ Advanced Embedded Diploma
  • **Description:** Diploma covering ARM Cortex-M4 and embedded systems.
▪ Digital Design Diploma
  • **Description:** Diploma on digital design and verification.