Ahmed Sherif Salem El-Sayed

Cairo, Egypt - 01029977141 - ahmedsherif2023199@gmail.com - Military Status: Exempted
Ahmed Sherif | LinkedIn

Profile

Hardworking and energetic embedded system engineer with a solid background in C programming language and interfacing, seeking a position in a reputable company where my educational background and skills can be fully utilized and enhanced.

Experience

Teaching Assistant at Zewail City of Science and Technology — Feb. 2024 – Present

- Prepare tutorials and labs about the Fundamentals of programming using C++.
- Prepare tutorials and labs about Control System Theories using MATLAB.
- Assisting the courses instructors with curriculum development and research projects.

Internships

Android Automotive Development Track
Information Technology Institute (ITI) – Smart Village- Egypt — Jul. 2024 – Present

- C++ / Modern C++.
- Makefile.
- Bash.
- Linux Administration.

Egypt Makes Electronics: Embedded Systems Engineering Track — Jul. 2023 – Oct. 2023
Information Technology Institute (ITI) - New Capital- Egypt

- C programming
- Interfacing with AVR
- Interfacing with ARM
- RTOS.
- Automotive.
- CAN & LIN protocols.
- Embedded Linux
- Python
- C++ programming
- Software Testing
- Data Structure
- Algorithms

ITI-Summer Camp (Embedded System) – Mansoura - Egypt — Aug. 2022 – Sep. 2023
Embedded Software Engineer – Trainee

- C programming.
- Algorithms.
- Data Structure.
- Simple RTOS.
- Computer Architecture.
- AVR interfacing.

Education

Bachelor of Science — Sep. 2018 – Jul. 2023
Mansoura University - Egypt
Major: Mechatronics Engineering
GPA: 3.58
Graduation Project: Laboratory Mechanical Gripper Using Atmega32 – Project Grade: A+

Skills

Interpersonal: Presentation| Attention to details | Problem Solving | Self-Motivated
Languages: Arabic (native) English (B2 intermediate)
Technical: C | C++ | OOP |Python | Problem Solving | Data structure & algorithms | Bootloader & Flashing |interfacing | Control System theories| Digital design.
Targets: ARM Cortex-M4 interfacing | AVR Atmega32 interfacing.
Tools: Visual Basic | Eclipse | AVR Atmel studio | CodeBlocks.

Projects

- **ADAS Vehicle:** A smart vehicle which can avoid any possible accidents by applying some suitable features (AEB – ACC – LDW).
- **Microwave System:** By using Atmega 32, Two indicator as LEDs, a DC Motor and its driver and displaying the timer on 8-digit LED display using MAX7221.

- **Graduation Project (Laboratory Mechanical Gripper Using Atmega32):** We used Flex sensors and a gyroscope to manipulate a robotic arm with a gentle gripper and a tiny camera. The camera let us watch from another room, while the gyroscope tracked our shoulder movements, and the Flex sensors controlled the gripper's pressure. The gripper was specially designed to handle fragile objects without breaking them.
- **Hand Mimicking Based on Computer Vision:** A hand that simulates the human-hand movements using AI model and PCA module to drive the servo motors.

Extracurricular Activities

2021-2023	Computer Science / HR member at **CAT-Reloaded**	Mansoura University
2021-2023	Autonomous / HR member at **Mansoura Motorsport**	Mansoura University

Additional information

- Military State: Exempted.
- Date of Birth: 29/10/1999.