

MAHMOUD ABDELGHANY

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EDUCATION

Bachelor's Degree in Computer and Control Engineering

Suez Canal University, Ismailia

Expected Graduation: May 2025

Sep 2020 - Present

GPA: 3.52/4.00

SKILLS

Programming	C (Proficient), C++ (Intermediate), Python (Intermediate), Bash (Intermediate), Lua (Familiar)
Embedded Systems	AVR, ESP32, RTOS, ROS1, Arduino, PlatformIO
Tools	Proteus, Atmel Studio, Git/GitHub, Linux, Firebase, VSCode
Languages	Arabic (Native), English (C1), Japanese (Beginner)

EXPERIENCE

Part-Time Instructor

E.Camp Company, Ismailia

Dec 2023 - Present

- Developed C programming materials for beginners including 15 presentations, 200 exercises, and 15 assignments
- Conducted 7 interactive learning sessions for over 30 students
- Mentored 30+ students during assignments

PROJECTS

Smart Safe

PlatformIO, ESP32-CAM, C++, Firebase

- Implemented safe with camera for real-time monitoring via Android app
- Monitored temperature/humidity with Firebase RTDB

Disabled People Fall Detection

Arduino Uno WiFi, MIT App Inventor, Firebase

- Prototyped wearable device with bio-status monitoring and fall detection

Smart Home System with ATmega32

C, Proteus, AVRDUDE

- Designed smart home automation system using ATmega32

EXTRA-CURRICULAR ACTIVITIES

Wiring Committee Head

SCU Racing Team

Jan 2024 – Dec 2024

- Led 6 students in electrical system design
- Created curriculum for car powertrains/schematics

Autonomous Team Member

SCU Racing Team

Jan 2024 – Dec 2024

- Co-founded autonomous team for EVER V 2024 competition
- Worked on ROS, Coppeliasim, and Kalman filters

Technical Member

IEEE SCU SB

Oct 2022 – Mar 2024

- Created technical content for 200+ students
- Mentored students in embedded systems

Dashboard Committee

SCU Racing Team

Jan 2022 – Dec 2024

- Designed racing car dashboard with 5-member team

Orphanage Volunteer

Al Rahma Orphanage, Ismailia

Jan 2024 – Jul 2024

- Taught children electricity/motors/Arduino basics
- Built battery-powered cars with kids