

Abdelaziz Abdelfatah Abdelaziz

Software Engineer (Computer & Systems Department)

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📍 Zagazig, Egypt 📅 20/05/1998 🛡 Military Status: Currently serving

🎓 Education

Bachelor's degree of Computer Engineering, Zagazig University

09/2016 – 07/2022

Zagazig, Egypt

- Accumulative Grade: Very Good
- Equivalent Percentage: 77.1%, GPA: 3, Grade: B
- Graduation project (Grade: A+) : AUTONOMOUS MOBILE ROBOT (AMR):
 - Designing Autonomous mobile robot to work as Smart Wheelchair targeting people with movement impairment disabilities giving them the ability to move freely in their houses without the need of any help from others.

Professional Front-End Web Development Nanodegree Program,

03/2022 – 05/2022

Egypt FWD - Udacity

- Intro to HTML & CSS
- Intro to JavaScript
- JavaScript & The Dom
- Web APIS & Asynchronous
- Foundation of Agile
- Managing Freelancing Projects

Google IT Automation with Python specialization, ITI - Coursera scholarship

03/2022

- Crash Course on Python
- Using Python to Interact with the Operating System
- Introduction to Git and GitHub
- Troubleshooting and Debugging Techniques
- Configuration Management and the Cloud
- Automating Real-World Tasks with Python

Embedded Systems Diploma, 3alemny Academy

07/2019 – 03/2020

Cairo, Egypt

- C & embedded C Module
 - Building up an understanding of algorithms, Data structure and problem solving using C Language in Context of Embedded Systems.
- AVR Microcontroller
 - Microcontroller Architecture and Interfacing with AVR
 - Implementation of generic MCAL: DIO, Timer, PWM, ADC, UART, I2C, SPI.
 - Implementation of generic HAL: LCD, LED, Motor, Servo Motor, Seven Segments, Keypad.

🏠 Organizations

Huawei, Artificial intelligence Internship

08/2021 – 10/2021

InnovEgypt - TIEC, innovation and entrepreneurship scholarship

02/2020 – 04/2020

Egypt Air company, Internship

07/2019 – 09/2019

IEEE Zagazig Student Branch (Volunteer), Member at PR committee,

08/2019 – 05/2020

Zagazig United Engineering Students (ZUES) (Volunteer),

09/2018 – 10/2021

Head of Academic committee and Member at PR committee,

Skills

Tools & Technologies:

- IDEs (Anaconda, PyCharm, Code Blocks, Visual Studio Code, NetBeans, Atmel Studio, Arduino)
- Git & GitHub
- Bootstrap 5
- WordPress
- Virtual Machine Software (VMware, Virtual Box)
- Microsoft Office (Word, Power point, Excel)

OPERATING SYSTEMS

- Linux (Ubuntu, Ubuntu Mate)
- Windows
- ROS (Robotic Operating System)

Programming Skills:




- C Language & C MISRA Rules & Embedded C
- Serial Programming (SPI-I2C-UART)
- Python
- JavaScript
- Node.js
- HTML & CSS
- Data Structures and Algorithms

Circuits/Simulation



- Electronics and Circuits
- Proteus
- MATLAB
- Multisim
- LabView

Projects

Embedded Systems Projects

- **Displaying a char on LCD using AVR(Atmeg32a) and Arduino(UNO) and Keypad **
 - Atmega32a controller will receive a char from a keypad then sending it to the Arduino using UART communication Protocol, then the Arduino sending it to the LCD to print it using I2C communication Protocol.
 - Used Drivers: GPIO, Keypad, LCD, Timer, UART, I2C.
- **Door Locker Security Systems simulation using Pic microcontroller and LCD and Keypad. **
 - Developing a system to unlock a door using a password with PIC16F877A.
 - Used Drivers: GPIO, Keypad, LCD, Timer, UART, I2C, EEPROM, Buzzer and DC-Motor.
- **Heat control system using LabView**
 - Developing a system to control the speed of a fan depending on the
 - Used Drivers: Arduino, DC motors, H-bridge.
- **Bluetooth - Controlled Arduino Robot **
 - A robot car that can be controlled using a mobile App
 - Used Drivers: Arduino, Dc motors, H-bridge, Servo motors, Bluetooth module

Web (Front-End) Projects

- **home page Ecommerce Project Arabic for selling Car Parts**
 - Creating 5 pages using HTML, CSS, JS
- **Weather Journal App Udacity **
 - Creating an asynchronous web app that uses Web API and user data to dynamically update the UI and display the weather journal of the city - country that the user has entered.
 - Tools used: Html & css, Js, Node.js and Express Environment, Local Server, Creating API credentials on OpenWeatherMap.com
- **landing page **
 - A multi-section landing page, with a dynamically updating navigational menu based on the amount of content that is added to the page.
 - Tools used: Html & css, Js, DOM to generate a navbar

Languages

Arabic

-Native



English

- Highly proficient reading, writing, speaking, listening



German

-Beginner (A1)

