Aly Mohamed

✉ alim13789@gmail.com   📞 +20 01147875660   📍 Egypt, Alexandria   in aly-mohamed   ◯ Alym155

EDUCATION

Computer Engineering
Arab Academy for Science, Technology and Maritime Transport
09/2019 – present | Alexandria, Egypt
10th semester
GPA: 3.1

SKILLS

Algorithms
Good understanding of basic data structures and algorithms

Object Oriented Programming
Good understanding of the Object Oriented Programming paradigm

AWS Services
Basic Knowledge of AWS Services

Programming
C#, C++, Python, Java

Web
HTML, CSS, JavaScript, Nodejs, Ejs, Php, React js

OpenCV

CERTIFICATES

AWS academy cloud foundation certification
January 2024

ECPC qualification
August 2023

MATE ARAB REGIONAL R.O.V COMPETITON
May 2023

ITI Front-End Web development program
August 2022

LANGUAGES

Arabic   ● ● ● ● ●
English   ● ● ● ● ○

PROFESSIONAL EXPERIENCE

Vortex.co
Software Team Member
08/2022 – 07/2023 | Alexandria, Egypt
Worked on the top side "software" & bottom side "hardware" of the ROV
➢ Bottom side "hardware"
- Used PIX-HAWK control module for navigation, control, and stabilize the ROV by its thrusters whether the piloting mode was Autonomous or human-driven.
- Used JETSON-NANO for the communication protocol between the driving station and the ROV'S live stream from the stereo Lab's ZED 3D camera.
Controlling ROV'S gripper DC motor with GPIO pins connected to H-BRIDGE.
- ➢ Top side "software"
- Worked on a GUI project to control the ROV and live streaming for the camera system and added the features to connect the joystick PS4 and communicate with ROV with C# and visual studio IDE.

PROJECTS

Electro-Store
Creating web project for electronics store using HTML, CSS, Nodejs, EJS, and Postgres database and deploying it in AWS using S3 bucket, amazon trail, EC2 and Amazon cloud front.

Chat Room System
Creating an application handling a local network between 3 computers in a chat room each one can send audio, images, text, and videos using PyQt5.

Hotel reservation system project
Creating a System to reserve for the clients and show the empty rooms, reserve the clients' data with login feature for the user connected to a database using mySQL database, C#, OOP.

AWARDS

Third Place
MATE INTERNATIONAL R.O.V COMPETITON
06/2023

Second Place
MATE ARAB REGIONAL R.O.V COMPETITON
05/2023