Ahmed Wagdy Mohy

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EXPERINCE

Software Engineering Intern @ Brightskies   July 2024- August 2024

- Worked on a CI/CD project using Jenkins and GitLab.
- Linux environment (Ubuntu & Alpine) for Docker containers
- Full Pipeline For Unit testing , Code coverage, Static code analysis, building, Integration testing, Jira Integration , Reporting using Pytest and allure
- Gtest, Pytest, Tessy, Helix QAC, Git
- Python & Bash & Batch scripts for Automation and streamline workflows. (Github Repo is available to prove)

EDUCATION

Bachelor of Electronics and Electrical Engineering (**Cairo University**)

- **GPA** : 3
- **percentage**: 89%
- **Graduation Year**: 2026
- **Military Status**: temporary exemption

COURSES

Embedded Linux Diploma - Eng Hazem Khaled   May 2024- Present

- Architecture of Linux Kernel
- User Space, Kernel Space
- Shell and Scripting
- File systems
- Cmake

Microcontroller Interfacing with ARM Diploma- IMT SCHOOL   Feb 2023 - 2024

- Arm architecture
- dealing with Hardware like TFT display,LED Matrix
- STM32F103C8 MCU interfacing
- RTOS
- Embedded Tools
- Writing a Bootloader

C and Embedded C programming - National Telecommunication Institute   Feb 2022- Dec 2023

- Basic concepts of Embedded Systems
- Data structure (LinkedLists, Stack and Queue)
- Algorithms (Searching Algorithm- Sorting Algorithm)

Building Machine learning models using Python - Coursera

- Python, Jupyter Notebook, and GoogleColab
- Regression and Classification
- Prediction Models

Digital IC Design and Verification - IEEE CUSB   Feb 2022- Dec 2023

- Digital Design Flow
- The Combinational Circuits and its design
- Coding with Verilog with its all styles
- Sequential Circuits as Flip Flops and Registers and Counters and the FSM and their designs
- RTL code
- Testbench code

PAST INTERNSHIPS

DevOps engineer Intern @Digital Egypt Builders Initiative "DEPI"   **May 2024- Present**

- Hands-on Containerization using Docker
- Continuous Integration using Jenkins
- Introduction to Kubernetes
- Continuous Monitoring using Prometheus
- AWS Cloud
- Terraform

Embedded systems Instructor at IEEE CUSB

- Explaining C programming and Embedded C for sophomore students
- teaching the essential Embedded concepts like Drivers, layers, build process
- Helping students to create a Clinic management system using C

Systel Telecom Group

- hands-on RF and antennas

NASA space apps Cairo Hackathon

- Solving real life problems
- Creating a social media platform for the competitors where they can contact

DEVELOPER TOOLS

CMake, Tessy, CPPcheck, Jenkins, Docker, Vivado , Questasim , Modelsim, MATLAP, Visual Studio C/C++,
Simulink, Cadence, STM Cube IDE , Eclipse IDE, Pycharm, Atmel studio,Proteus, photoshop , Illustrator,

PROJECTS

All the Details on README on repos

Jenkins-Full Pipeline @Brightskies
 Pipeline Stages: (This is a snippet, Confidential)
 Preparation ,Checkout ,Build ,Test ,Archive ,Post Actions

SSH-Connection between containers-Jenkins
connect the slave to the Jenkins container. So Jenkins can run and execute commands on the other
container

Mongodb-with-MongoExpress
Setting up MongoDB with Mongo Express using Docker to run Spring pet clinc App

Nginx As A LoadBalancer Using Docker
 setup multiple servers on containers and make a Nginx container acts as a load balancer

Clinic_Management_System using C Data structure and OOP
 In admin mode
 The system allows 3 trails for the password entry, if the entered password was incorrect for 3 consecutive
 times, the system shall close. After login in the admin mode, the system shall provide the following features:

- Add new patient record:
- Edit patient record
- Reserve a slot with the doctor
- Cancel reservation.

Spicy | Andoroid App based on Machine learning
 The application is based on AI and aims to assist normal people by providing a convenient and accessible
 tool for preliminary brain tumor analysis and early detection of tumors . The application is Flutter and Dart-
 based mobile application designed for brain tumor detection and classification

[Digital_MultimeterProject | AVR Based](#)

DigitalMultimeter measures the Voltage, Current and Resistance using AVR . Using LCD, Keypad,ADC and more....

[Traffic Light System Using STM32f103C8 | ARM BASED](#)

Simulated Traffic Management System that controls traffic lights efficiently based on pedestrian crosswalk requests. The system will use an STM32F103C8 microcontroller and various components, simulated within the Proteus environment

[Social_network_website | NASA Space Apps Competition](#)

A Responsive Social Media Website With Theme Customization Using HTML CSS & JavaScript
Mainly Used as a platform for the competitors where they can communicate , upload their scientific papers and get more connections

ADDITIONAL INFORMATION

- **Technical Skills:** Embedded systems, Linux system, DevOps, Cloud, Containerization, ML and Ai

- **Soft Skills**: Collaboration and team work , Hardworking , learning new things , Exploring

- **Languages:** English, Arabic, French Basics.

- **Awards/Activities:** clinched the 4th position out of 22 teams at the 10th Engineering Research Day organized by TCCD - Career Center in the Faculty of Engineering Cairo University.