Yasser Ahmed Mohamed

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OBJECTIVE:

Seeking a job opportunity or an internship in the embedded systems field my education, to obtain a challenging embedded software engineer position where my programming, electronic, and electrical
skills together can help in the design and development of embedded systems.

EDUCATION:

- **Faculty of Engineering – Ain Shams University**
  BSc. Computer and System Department 2017-2022
  Accumulative Grade: Very Good (83%)
- **Motafwkeen Secondary School for Advanced Students**
  2015-2017| One of the top 96 students accepted from IQ exam out of 5000 students

COURCES:

- **Full Embedded Systems Diploma under supervision of Engineer Mohamed Tarek (160+ Hours)**
  Jul-Sep 2022 (Currently)
  The Diploma covered the below topics:
   Basic Concepts of Embedded Systems. - C Programming - Data Structures (Linked-List, Stack and Queue)
  AVR Micro-controllers Interfacing (Implement all the drivers) -Embedded C - Real Time OS(RTOS) -
  Software Engineering - Embedded Tools - HW Labs
- **Web Development Challenger Track (Egypt fwd)**
  Apr-May 2021
  Learned how to debug HTML and CSS code and build a responsive website layout.
- **Innovegypt program**
  12-17 Sep 2020
  30 hours training program in the area of innovation and entrepreneurship aims to help and increase Startups in Egypt and work to increase Contribute to local/regional economic growth. I worked with a team of 8 in a project to help the people of remote areas who are below the poverty line. Also learning how to make an empathy map and user persona.

Extracurricular Activities:

- **Pirates**
  Sep 2020 – May 2021| Quality Management member
- **STP (steps toward progress)**
  Sep 2019 – Apr 2020| Graphic Designer member
- **IDT (Industry development technology)**
  Sep 2018 – Feb 2019| IT member

SKILLS:

Languages: English
Programming: C++, C, Embedded C, HTML5, CSS3, OOP, Data Structures, Verilog HDL
Practiced Programs: MATLAB, Eclipse, SUMULINK, Ubuntu

PROJECTS AND EXPERIENCES:

C (Embedded Systems):

- **GPS Tracking System**
  2021| Embedded C & Python
  It is a college project of 6 member. We developed a GPS tracking system using TM4C123G Launchpad, the system stores the moved trajectory after power-on and calculate total live distance and show it on LCD also draw the live trajectory in laptop by using python script on google map. [Git]

- **Door Locker Security System with ATmega16**
  2021| Embedded C
  Door Locker Security System consists of two ECU's. The first ECU called HMI responsible for interfacing with the user and the second ECU called control ECU which is responsible for the system operations and control the following drivers.

- **Stopwatch with ATmega16**
  2021| Embedded C
  A stopwatch with 3 push buttons for reset, pause, and resume; interfaced with 6 multiplexed 7-segment displays. [Git]

- **CAN Driver**
  2021| Embedded C
  implemented CAN Driver based on TIVA (TM4C123GH6PM) microcontroller

- **Maze Solving Robot**
  2018| Arduino
  Implement a C code to solve a Maze using Arduino framework. And working with the required electronics.

C++:

- **Matrix Manipulation**
  2019| C++
  It is a project of making a matrix of (100*100) dimension and supporting complex number. To calculate sum, sub, operation of multiplier, determent, transpose and inverse.

- **Data Structures and Algorithms Course** in college.

C#:

- **CPU Scheduler**
  2021| C#
  It provides 6 different schedule algorithms where I implemented the "shortest job first (preemptive and Non preemptive) and priority non preemptive" algorithm.
  The application draws the processes in order vs time and calculate their average
  waiting time. [Git]

Mobile Application:

- **Ecommerce Application**
  2020| Flutter&Dart
  Worked with team in college to create a store application using Flutter&Dart languages on Android Studio also we used Firebase to upload and store files and this application work on Android and IOS. [Git]

Web Development:

- **IDT Website — IT member**
  2018| HTML, CSS, Bootstrap
  Worked with team of developer in IDT (Industry development technology) to update online examination and build a recruitment system for internships and opportunities for university students.

Computer Architecture:

- **Design PCI Bus**
  2020| Verilog (HDL)
  Write a synthesizable Verilog code to implement a PCI bus for target device and testing modules working as Initiator device and converting code to RTL schematic using Xilinx program. [Git]