Ahmed Fakhreldin Sayed

Software Engineering Student

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Personal Statement

I am a Senior 1 Computer Engineering student in the Faculty of Engineering, Ain Shams University. My average grade is 3.11 in 120 Credit Hours [7 Semesters].

Skills

Very good:
- C++
- Java
- MySQL
- Data Structures and Algorithms
- Problem Solving
- OOP
- Software Testing

Good:
- Verilog HDL
- MIPS Assembly
- ARM Assembly
- Python
- Angular
- NodeJS
- Express
- MongoDB

Projects

Digital Counter   Fall 2019– date

In this Project, i and 4 of my mates made the circuit that simply uses 4 7-segment pieces that counts seconds using 2 digits, and when it shows the number 59 on the seven-segment, the counter of minutes gets increased by one and seconds become zeros and so on.

Design and implementation of power supply circuit   January 2021 – date

In this Project, i and 2 of my mates made the circuit that takes an input of 220V AC voltage and converts it to a DC voltage of 12V.

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GPS Tracking System (to calculate the distance between 2 Points):   June 2021 – date

In this Project I and 4 of my mates were able to create a using Tiva Launch-Pad and C Language to Implement the algorithm that's able to calculate the distance between a starting point and the endpoint you want just by taking the device with you and show the distance on 7-segment digits (using decoders):

GitHub Link: Embedded-Project

Video Link: https://drive.google.com/file/d/1bwodVz3nlM7rz4agelTBYZCvmy44E03l/view

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Arithmetic and Logical Unit Design Project: June 2021 – date

In this Project, I and 10 of my mates were able to design arithmetic and logical unit using "Cadence" software and calculate the Delay and Power Consumption and FO4

Link: Code and Documentation

XML program (data structures course):   February 2022 – date

The idea of this project is "developing a software that can parse XML files and do some basic operations. In this project, we worked on developing a GUI-based program to parse and visualize an XML file.

GitHub Repository: Code and .exe file

GitHub Repo: GitHub Repository

Java CPU schedulers simulator (Operating System Course)   Jun 2022 – Jun 2022

A Group Project to implement a desktop application that simulates the process scheduling for the FCFS, SJF, Priority, and round-robin schedulers GitHub: CPU-Scheduler

Languages

Arabic: Native   **English**: Very Good