AHMED ABDULAMIR

Computer Engineering Student
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PROFILE

A university student with an interest in electronics, machine learning, computer systems, and both high and low level programming. I am seeking a position with an organization that offers opportunities for project contribution. I have completed various school projects on topics ranging from electronic circuits, object oriented programming, and statistical analysis with R programming. I obtain strong communication skills with the ability to work with diverse groups of people and is fluent in Arabic. Adept at learning new skills and eager for an opportunity to learn new skills.

RELEVANT COURSE PROJECTS

PROGRAMMING

- C++ projects containing the following topics: operator overloading, inheritance, sub-type polymorphic, abstract class and concrete classes, exception handling, enumerations, mutable and immutable classes, various design patterns, and data structures
- Using R programming language to test hypotheses, estimation, decision theory, linear models and determine relationships in a set of random variables.
- Familiar with languages including Python, C#, MASM, HTML, Javascript, CSS, PHP, SQL, Node.js
- Created a Memory matching game using Java
- Studied tools and techniques used in all phases of the software development cycle such as enterprise modeling, data modeling, structured design, and prototyping
- Wrote introductory programs in the Motorola S12, to gain experience to build and program a maze solving robot with motors and sensors
- C++ projects for an algorithms class that emphasizes on complexity. The programs written in this class covered topics from greedy algorithms, randomized algorithms, dynamic programming, and dived and conquer algorithms.
- Familiar with some UNIX commands and written introductory programs in PERL such as ing regular expressions
- Write programs in C for the PIC24 Developement Kit to manpulate bit values and interface external device with the microprocessor

ELECTRONIC CIRCUITS

- Designed a 24-hour digital clock using a 555 timer
- Written and modified existing C/C++ functions on an arduino
- Simulated various logic gates using NPN transistors and an LED light to determine output
- Designed an experiment with an RC lowpass filter given multiple input signals and calculating the
- output
- Capable with using Multisim and Ti ELVIS station
- Installed buttons with delays, LCD screen and wheels to a robot template from the Motorola S12
- Utilize pulse width modulation to run wheels on robot
- Installed a middle, left, and right LED and IR combination to avoid hitting walls as the maze robot navigates.
- Used the PIC24FJ128GA202 (PIC Processor) to design input and output pins, and a power source that will power the processor and the following external devices: LCD, Keypad, Servo motor and Stepper motor.

EDUCATION

HARDING UNIVERSITY — **CLASS OF 2022**
Computer Engineering
GPA: 3.0/4.0

ACHIEVEMENTS

- Employee of the month July 2015 out of 39 employees
- Harry S. Truman Academic Excellence Scholarship- 2016
- Harding Engineering Department Outstanding Engineering Scholarship- 2018