AHMED ABDULAMIR

Computer Engineering Student
Chicago, Illinois • 773-654-0297 • aabdulamir@harding.edu

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.

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 Development Kit to manipulate bit values and interface external device with the microprocessor
- Create and design several fully functional e-commerce store websites with features such as pop-up widgets, account registration, and product categorization

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