Mohammed Alawami

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Education

JUNE 2019

B.S. Electrical and Computer Engineering / Oregon State University

JUNE 2019

Minor Computer Science / Oregon State University

Experience

SEP 2018 – PRESENT

Student Developer / Enterprise Computing Services, Corvallis

Design and deliver APIs and improving existing APIs to meet the client's needs to provide them with tools they need to create their applications.

Skills

- Web development: Designing and implementing a multi-tier application using HTML, CSS, JavaScript, and creating a client and server-side
- Programming Languages: Assembly, C, C++, JavaScript, Python, Embedded C.
- Software verification and validation, including: test plan development, test design, construction, debugging and maintenance.
- Programming microcontrollers

Projects

- **Automated Greenhouse** Sep 2018 - May 2019
  Designing a system to monitor the environment inside a greenhouse, and automate the process to grow a plant from a seed to a grown plant. The system includes soil moister level sensors and a temperature sensor connected to wifi modules to communicate with the hub. The hub records the data from the sensors and uploads the data to a server for the user to view, and controls an irrigation system and an exhaust fan.
- **Shell program** Mar 2018
  Programmed my own small shell program, with fewer features than the actual shell. The implemented features are: cd, status, exit, redirection, foreground and background processes, and some signals.
- **OTP Encryption Program** Mar 2018
  Created five programs, two clients and two servers that encrypt and decrypt information using a one-timepad, and a key generator.
- **Alarm Clock with FM Radio** Oct 2017 - Dec 2017
  Designed and built a stereo FM alarm clock radio with inside/ outside temperature indications using two AVR microcontrollers, ATMEGA 128 and ATMEGA 48. Included features, volume control, clock control, brightness auto control, and used 7-sigment display and an LCD. Communication protocols that were used were UART, SPI, I2C, as well as Timer/Counter, PWM and ADC.
- **Power Supply** Sep 2016 - Dec 2016
  Designed and built a two channel power supply, designed a rectifier with a positive and a negative channel, providing 16 volts to a voltage regulator to output voltage from 2V-12V.