SCOTT SOL

13409 Pacific Pointe Ln
Mukilteo, WA 98275
206-794-9654
scottsol@uw.edu
https://www.linkedin.com/in/scott-sol-029454b5/
https://github.com/scottsol

SUMMARY

I am a graduate in Electrical Engineering from the University of Washington, specializing in Embedded Systems and programming. I have a strong foundation in object oriented programming and a strong understanding of computer architecture. I am also familiar with relational database systems such as MySQL and am interested in furthering that experience into the realm of cloud computing.

THE UNIVERSITY OF WASHINGTON   **Seattle, WA**
Bachelors of Science; Major in Electrical Engineering in Embedded Computing Systems   **2012-2017**

PORTFOLIO

MODERN DARTBOARD GAME
- Implemented a database to store player information and game status information
- Designed a graphic user interface for the dartboard game using Html, JavaScript, and JSON
- Replaced the hardware interface with a Raspberry Pi capable of running multiple game implementations
- Interfaced the GPIO inputs with a dartboard matrix to detect darts.
- Used a MySQL database to store player information and data

MICROPROCESSOR REMOTE CONTROL TANK
- Programmed a Linux microprocessor using C to remote control a BeagleBone tank
- Implemented a Bluetooth serial path as an input stream
- Implemented the use of analog sensors to prevent collisions

CAMERA DATA BUFFER MANAGEMENT
- Simulated serial communication between a command center and rover imaging system using SPI communication
- Gained experience programming pic microprocessors
- Gained experience reading signals on mixed signal oscilloscopes
- Programmed data automated data upload/download based on buffer capacity

RESTFUL CONTACT LIST APP
- Using a M.E.A.N (Mongo, Express, Angular, Node) stack, created a web application storing contact information in a Mongo database
- HTTP protocols to add/edit/remove contact information to and from the server
- Used Boot Strap for HTML styling

WORK EXPERIENCE

EMERALD CITY ENGINEERS   **Mountlake Terrace, WA**
Electrical Design Intern   **6/15-9/15**
- Gained experience working and communicating with teams of engineers, contractors, and architects
- Worked with a team of engineers on the electrical design of a hotel using AutoCAD and Design-master
- Effectively worked in on multiple projects at a time while meeting sprint checkpoints to satisfy client's needs
- Code Analysis – Reviewed designs to comply with Electrical, Energy codes.

UW DEPT OF ELECTRICAL ENGINEERING   **Seattle, WA**
Lab Assistant   **6/14-12/16**
- Assisted Electrical Engineering students with undergraduate lab projects
- Troubleshoot faulty lab equipment
- Sourced necessary electrical components for projects

RELEVANT COURSEWORK

- Java Programming
- Digital Circuits & Systems
- Discrete Time Linear Systems
- Hardware Software Interface
- Data Structures & Algorithms
- Programming Concepts and Tools
- Digital Design
- Database Systems
- Introduction to Embedded Systems
- Computer Design & Organization
- Computer Architecture II
- Embedded Capstone

SKILLS

- Java
- MySQL
- C
- Node
- Js
- Verilog
- Python
- MongoDB