

Allardyce Suba

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Education

Bachelor of Science, Computer Engineering

May 2016

San Jose State University – San Jose, California

Relevant Coursework

- Object Oriented Programming
- Digital Design
- Circuit Design and Analysis
- Computer Architecture and Design
- Compiler Design
- Embedded Software
- Advanced Algorithm Design and Data Structure
- Software Quality Engineering
- Database Systems

Technical Skills

Programming Languages: C, C++, C#, Python, Java, HTML, CSS, Javascript, MIPS assembly, Verilog, SQL

Database Systems: Microsoft Access, Microsoft SQL, MySQL

Operating Systems: Windows, Linux

Applications: Eclipse, Visual Studio, Visio, LogicWorks, Xilinx Design Suite and iSim Simulator, Word, Excel, Powerpoint, AutoCAD

Version Control: Git, Github

Personal Skills

- Excellent written and verbal communication
- Strong analytical and problem solving
- Able to work with group and independently
- Adaptable and resourceful

Projects

Digital Design and Computer Architecture

Spring 2015 – Fall 2015

- Designed digital systems using the building blocks of data path, control unit, and RTL.
- Each digital system was designed using Verilog hardware descriptive language and were implemented and validated using FPGA device, Nexys3 board.
- Simulated each project using Xilinx iSim Simulator and debugged using the output of the simulation in comparison to the schematics designed.

Internet of Things Home System

Fall 2015 – Spring 2016

- Implemented a working IoT home system that controlled and monitored devices remotely using a Raspberry Pi by following software engineering principles for documenting, designing, and testing.
- MySQL was used in designing the database, which interacted with the webserver for monitoring the devices connected to the system. The database updated depending on the status of each device.
- Implemented and programmed the wireless relay outlets, which controlled the devices connected to IoT system. This was achieved by programming in Python to make transistors act as switches connected to the GPIO pins of a Raspberry Pi.