

Ameer Khan

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EDUCATION

University of California, Santa Cruz

Bachelor of Science in Computer Engineering with Honors

Santa Cruz, CA

September 2015 - June 2019

Relevant Coursework:

- Algorithms and Abstract Data Types (C & Java)
- Operating Systems (C)
- Computer Networks
- Computer Architecture
- Electronic Circuits
- Data Structures (C & Java)
- Microprocessor System Design (C)
- Network Programming (C)
- Logic Design (Verilog)
- Signals and Systems (MATLAB)

PROJECTS

Smart Diagnostic Toy | C, Python, IDLE, MPLAB X, ChipKIT Uno32

January 2019 - June 2019

Senior Design Project

- Worked in a team of five to build a smart toy that can monitor developmental delays of young children
- Developed an algorithm in C to generate the game that runs on a chipkit uno32 in order to monitor color and shape recognition
- Developed a python script to plot and analyze data from a csv file sent over bluetooth in order to generate a diagnostic report

TCP Chat Program | C

February 2019 - March 2019

Network Programming Project

- Built a TCP-based chat program in C that is composed of multiple clients and a server program which is used to connect clients so that they can exchange messages

Oscilloscope | C, PSoC Creator, PSoC 5LP Microcontroller, Raspberry Pi 3 B+

November 2018 - December 2018

Microprocessor System Design Project

- Built a dual-channel oscilloscope in C that runs on a raspberry pi which is responsible for configuring the oscilloscope parameters, collecting samples from the microcontroller and displaying the data graphically

Bank Application | Java, Eclipse

August 2018

Personal Project

- Created a program in Java that reads a csv file of names, social security numbers, account types and initial deposits in order to handle new customer bank account requests

Student Database Application | Java, Eclipse

August 2018

Personal Project

- Created a program in Java that manages a student's enrollment in order to keep track of information such as name, grade, student ID, school email, password, courses and tuition

SKILLS

Programming Languages: C, Python, Java, HTML, CSS, Verilog, MATLAB

Software Applications: Git, Unix, IDLE, Eclipse, PSoC Creator, MPLAB X

Hardware Tools: PSoC 5LP Microcontroller, Raspberry Pi 3 B+, ChipKIT Uno32, Basys 3 FPGA Board, Oscilloscope, Multimeter

VOLUNTEER EXPERIENCE

Fremont Main Library

Fremont, CA

Teen Tech Volunteer

June 2013 - June 2014

- Worked with ten other volunteers to help older adults learn how to use the Internet, smartphones, digital cameras, Microsoft Office and other online web-based accounts such as social media platforms
- Worked as a leader to make sure the older adults left satisfied and to help guide other volunteers as needed