**Ameer Khan**

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**EDUCATION**

**University of California, Santa Cruz Santa Cruz, CA**

***Bachelor of Science in Computer Engineering with Honors* September 2015 - June 2019**

*Relevant Coursework*:

|  |  |
| --- | --- |
| • Algorithms and Abstract Data Types (C & Java) | • Data Structures (C & Java) |
| • Operating Systems (C) | • Microprocessor System Design (C) |
| • Computer Networks | • Network Programming (C) |
| • Computer Architecture | • Logic Design (Verilog) |
| • Electronic Circuits | • 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 uno32in 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