

# MARK ANTHONY TULLEN

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## Summary

A passionate and results-driven computer engineering student with a strong foundation in computer engineering and programming principles across multiple platforms.

## Education

*University of California, Irvine (GPA: 3.48)*

Class of 2020

- Bachelor of Science in Computer Engineering
- Minor in Philosophy
- Dean's Honors List, 6 Terms

## Technical Skills

- Java, C, Python, Assembly, SystemVerilog, PSpice, GitHub

## Engineering Lab Projects

### *RISC-V Processor*

September 2018 – March 2019

- Independently designed a RISC-V processor using SystemVerilog and the synthesis tool Vivado
- Created modules for an ALU, multiplexers, instruction and data memory, and register file to simulate a data path
- Increased the efficiency of the design with forwarding techniques and hazard detection

### *Object Oriented Programming in Game Design*

January 2018 – March 2018

- Recreated *Super Mario Bros. (1984)* and chess for mobile platforms using Android Studio
- Coded in Java to create multiple levels and player entities with interactive data structures
- Collaborated in a team of two using GitHub as a source of file-sharing and issue repairs

### *FPGA Design Lab*

September 2017 – December 2017

- Implemented digital logic subsystems using SystemVerilog and an FPGA board
- Coded a calculator with multiple sensor inputs that responded to physical button interactions
- Debugged the calculator by running testbenches that checked for correct arithmetic execution

## Work Experience

### *University of California, Irvine Student Housing*

*Irvine, CA*

Housing Office Attendant

August 2017 – Present

- Assess emergent concerns of each resident and guest in a fast-paced office setting
- Sort through 100+ residents' paper mail and packages to organize and keep inventory of each item
- Monitor dozens of residents in an entertainment space to ensure each individual's safety and well-being

## Extracurricular Activities

### *Associated Students of the University of California, Irvine*

*Irvine, CA*

Transportation Commissioner

November 2017 – March 2018

- Organized a committee to create a proposal for the implementation of parking meters to administration
- Assisted in the successful negotiation for a \$1,000,000,000 environment-friendly electric bus
- Oversaw meetings with commissions from other executive offices to discuss wide-scale events

Recruitment and Retention Intern

August 2016 – August 2017

- Increased recruitment rates by 10% through networking with students from different organizations
- Hosted organization-wide events to promote engagement between the different political offices
- Strengthened the presence of student government by hosting event booths weekly