

# Matthew Chu

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## Education

**Carnegie Mellon University**, Pittsburgh, PA

Bachelor of Science in Electrical and Computer Engineering, May 2018

GPA: 3.18/4; Relevant coursework:

- Introduction to Computer & Network Security & Applied Cryptography
- Structure and Design of Digital Systems
- Introduction to Electrical and Computer Engineering
- Introduction to Computer Systems
- Principles of Imperative Computation
- Fundamentals of Programming and Computer Science
- Computational Photography

## Experience

**Raytheon Integrated Defense Systems**, Andover, MA

(May-August 2016)

Layout and Software Support Intern

- Developed software to be able to easily convert designs so that a single design would be able to be opened and edited with two different CAD tools (Cadence Virtuoso and ADS Keysight)
- Wrote SKILL utilities to increase design productivity with Cadence Virtuoso

## Skills

**Computer Languages:** Python, C, Unix Shell, Java

**Hardware Languages:** SystemVerilog

**Software:** MS suite, Quartus II, DVE, Matlab, Eclipse

**Operating systems:** Linux, Windows

## Projects

### COVM

- Implemented a Virtual Machine for CO, a type-safe subset of C.
- Created test cases in CO and byte code to test the validity of the VM.
- Learned how to perform low-level data and memory manipulation safely and efficiently.

### Collisions

- Created a multi-level strategy game using Python and the pygame module set.
- Implemented collision detection, an efficient graphics display, and a basic enemy AI.
- Learned basic principles of GUI's and object oriented programming

## Volunteer /Community and Extracurricular Activities

### Carnegie Mellon University Volunteer

- Fundraising activities for the CMU swim team

### YMCA volunteer

- Fundraising and assistant coaching for the Somerset Valley YMCA

### Camp New Day Counselor

- Counselor for a sleep away camp for developmentally disabled adults

### Carnegie Mellon Men's Varsity Swimming

- School record holder and Member of the 2015 and 2016 UAA conference team