

Matthew Chu

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Permanent Address:
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Education

Carnegie Mellon University, Pittsburgh, PA

Bachelor of Science in Electrical and Computer Engineering, May 2018

GPA: 3.15/4; Relevant coursework:

- Operating System Design and Implementation
- 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 convert between two significantly different design formats so that a single design could be easily ported between 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, x86 Assembly

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