SEEKING EMPLOYMENT STARTING JUNE 2019

11 Summit View, Goshen, NY 10924

□ (845) 341-3978 | 🚘 agotsis@andrew.cmu.edu | 🔀 alexgotsis8@gmail.com | 🌴 www.agotsis.org | 🖫 agotsis | 🛅 adgotsis

Education

Carnegie Mellon University

Pittsburgh, Pennsylvania

Expected May 2019

B.S. IN ELECTRICAL AND COMPUTER ENGINEERING

- Overall GPA 3.61/4.00 as of May 2018
- Carnegie Institute of Technology Dean's List Fall 2015, Spring 2017, and Spring 2018
- One additional semester left for M.S. in Electrical and Computer Engineering if continue education

Selected Coursework

Operating Systems Design & Implementation Embedded Systems Software Engineering

Structure & Design of Digital Systems Fund. of Electrical Power Systems Calculus I/II/III Intro to Computer Systems

Intro to Embedded Systems

Physics I/II

Experience

MITRE Corporation

Bedford, Massachusetts

May 2018 - August 2018

EMBEDDED SOFTWARE COOP/INTERN

- Develop and test a multiple power & clock fault testing suite as Python interfaces for Arbitrary Waveform/Function Generators.
- · Profile Dwenguino AVR instructions and develop suite for profiling other hardware implementations.
- Engineer methods to extract cryptographic information at a distance by means of electromagnetic emissions.
- Alter programmable logic for secure video game console eCTF to store symmetric keys. Win 2nd place in eCTF and Iron Flag Award.

Robotany Pittsburgh, Pennsylvania

ELECTRICAL ENGINEERING POWER SYSTEMS INTERN

May 2017 - May 2018

- Design 3-phase delta 240V electrical power system for robotic vertical farm, fixture wiring, and control racks.
- · Specify and implement power system including conduits, transformers, and load centers. Manage and direct assembly teams.

Auditory Lab (Profs. Heller and Grover)

Pittsburgh, Pennsylvania

ELECTRICAL AND COMPUTER ENGINEERING RESEARCH & DEVELOPMENT ENGINEER

May 2016 - May 2017

- · Engineer mobile application intended to assist in teaching echolocation skills to visually impaired persons on an interdisciplinary team with the Psychology and ECE departments under Professors Heller and Grover.
- Provide back-end design for and administrate data collection server.

Eberly Teaching Center

Pittsburgh, Pennsylvania

EBERLY TEACHING CENTER DEVELOPER

Sept. 2016 - Dec. 2016

- · Design and implement programmatic online course tools with JavaScript and jQuery for the Open Learning Initiative.
- Light system administration work on a Debian Apache 2 system.

Skills & Qualifications

SystemVerilog FPGAs Python Reverse Engineering Power Systems National Electrical Code AutoCAD / SolidWorks UNIX Systems x86 Java Lab Equipment Git DOD Secret Clearance Rapid Prototyping

Projects & Extracurricular Activities

- Embedded Capture the Flag 2ND PLACE TEAM, IRON FLAG AWARD (JUNE 2018 JULY 2018)
 - Design & implement a secure video game console with a team part time over 8 weeks. Defend own design & attack other team's systems.
- Build 18 Hardware Hackathon Builder (January 2017)

During a week-long Hardware Hackathon, design and implement a protocol for driving a 96 x 64 RGB LED Matrix via an FPGA in SystemVerilog. Use this display to show programmatically derived 3D animations.

Activities Board Technical Committee Core Member & Executive Board (2015 - Present)

Entirely student driven, as a member of the Executive Board, lead, plan and implement event production services for campus events from small events to well known concert performers, implementing complex 3-phase power systems, and high grade audio and lighting rigs.

• CMU Explorers Club Member, Hiking Chair & Treasurer (2016)

CMUX is an outdoors club dedicated to making outside more accessible, and encouraging others. Organize hikes as hiking chair.

• Spring Carnival Committee Head of Electrical (2016 - Present)

Responsible for the power distribution and safety of all building organizations for Spring Carnival