

Alexander D. Gotsis

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Education

Carnegie Mellon University

Pittsburgh, Pennsylvania

B.S. IN ELECTRICAL AND COMPUTER ENGINEERING

Expected May 2019

- Overall GPA 3.61/4.00 as of September 2017
- Carnegie Institute of Technology Dean's List Fall 2015 and Spring 2017

Selected Coursework

Structure and Design of Digital Systems	Introduction to Imperative Programming	Rapid Prototyping I/II	Calculus I/II/III
Intro to Computer Systems	Fund. of Electrical Power Systems	Intro to Embedded Systems	Physics I/II for Engineers

Experience

Robotany

Pittsburgh, Pennsylvania

ELECTRICAL ENGINEERING POWER SYSTEMS INTERN

May 2017 - PRESENT

- 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.

Ben Peoples Industries

Pittsburgh, Pennsylvania

EMBEDDED SOFTWARE DEVELOPER

Oct. 2017 - PRESENT

- Develop and improve C code related to time synchronization of custom architectural lighting controller. Synchronization is important to ensure that effects are uniform across distributed applications.

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.

Projects & Extracurricular Activities

- **Build 18 Hardware Hackathon** BUILDER (JANUARY 2017)
During a weeklong Hardware Hackathon, designed and implemented a protocol for driving a 96 x 64 RGB LED Matrix via an FPGA in SystemVerilog. We used this display to show programmatically derived 3D animations.
- **Activities Board Technical Committee** CORE MEMBER & EXECUTIVE BOARD (2016)
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.
- **Formula SAE Electric** MEMBER
Part of a team building an all-electric racecar, designing and manufacturing all components of the car, to compete with other teams.

Skills/Hobbies

C	UNIX Systems	ARM	Python	Java	Power Systems	National Electrical Code	AutoCAD / SolidWorks
SystemVerilog	FPGA	x86	C#	Lab Equipment	Rapid Prototyping	Production Management	Hiking/Backpacking