

# 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 3.56/4.00 as of January 2018
- Likely M.S. in Electrical and Computer Engineering by May 2019
- Carnegie Institute of Technology Dean's List Fall 2015 and Spring 2017

## Skills/Hobbies

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

## Selected Coursework

Operating Systems Design & Implementation    Structure & Design of Digital Systems    Fund. of Electrical Power Systems    Calculus I/II/III  
Embedded Systems Software Engineering    Intro to Computer Systems    Intro to Embedded Systems    Physics I/II

## Experience

### Mitre Corporation

Bedford, Massachusetts

EMBEDDED SOFTWARE INTERN

May 2018 - August 2018

- I will work in the Electronic System Development & Embedded Security (T824) this summer.

### 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.

### 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 (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