

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 3.54/4.00 as of December 2016
- Carnegie Institute of Technology Dean's List Fall 2015

The Hotchkiss School

Lakeville, Connecticut

HIGH SCHOOL DIPLOMA, WITH HONORS

May 2015

- Awards: Service Award, Technical Theater Award, AP Scholar with Distinction

Selected Coursework

Structure and Design of Digital Systems Introduction to Imperative Programming Rapid Prototyping I/II Calculus I/II/III
Introduction to Computer Systems Intro to Electrical & Computer Engineering Concepts of Mathematics Physics I/II for Engineers

Experience

Electrical and Computer Engineering/Auditory Lab (Prof. Heller and Grover)

Pittsburgh, Pennsylvania

ELECTRICAL AND COMPUTER ENGINEERING RESEARCH ASSISTANT/SYSTEM ADMINISTRATOR

Sept. 2016 - PRESENT

- 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.

Materials Science Department (Dr. Heard)

Pittsburgh, Pennsylvania

MATERIALS SCIENCE RESEARCH ASSISTANT

Jan. 2016 - Apr. 2016

- Prepare and analyze samples for Dr. Heard's research relating to the production of composites using thermoset wastes, aiming to find a viable reuse for the massive amount of discarded thermoset plastics.

Carnegie Mellon University School of Music

Pittsburgh, Pennsylvania

SOUND RECORDING ENGINEER

Sept. 2015 - PRESENT

- Produce multitrack recordings of School of Music events with ProTools. Mix sound for the livecasts of performances.

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, 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.

Skills/Hobbies

C SystemVerilog Debian / UNIX System Administration SQLite3 Rapid Prototyping AutoCAD / SolidWorks
Python Java JavaScript / jQuery C# Production Management Hiking/Backpacking