# Alexander D. **Gotsis**

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## **Edu**cation ─────────────────────────────

**Carnegie Mellon University** *Pittsburgh, Pennsylvania*

B.S. IN ELECTRICAL AND COMPUTER ENGINEERING *Expected May 2019*

- Overall GPA 3.68/4.00
- Major GPA 4.00/4.00
- Carnegie Institute of Technology Dean's List Fall 2015

**The Hotchkiss School** *Lakeville, Connecticut*

HIGH SCHOOL DIPLOMA, WITH HONORS *May 2015*

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

## **Sel**ected Coursework ─────────────────────────────

Structure and Design of Digital Systems    Intro to Electrical Computer Engineering    Calculus in Three Dimensions
Introduction to Imperative Programming    Engineering the Materials of the Future    Physics I/II for Engineers

## **Exp**erience ─────────────────────────────

**Eberly Teaching Center** *Pittsburgh, Pennsylvania*

EBERLY TEACHING CENTER DEVELOPER *Sept. 2016 - PRESENT*

- Design and implement programmatic online course tools with JavaScript and jQuery for the Open Learning Initiative.
- Light system administration work.

**Electrical and Computer Engineering/Auditory Lab (Prof. Heller and Grover)** *Pittsburgh, Pennsylvania*

ELECTRICAL AND COMPUTER ENGINEERING RESEARCH ASSISTANT/SYSTEM ADMINISTRATOR *May 2016 - PRESENT*

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

**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.
- Provide occasional video support.

## **Ext**racurricular Activities ─────────────────────────────

- **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.
- **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.

## **Ski**lls/Hobbies ─────────────────────────────

Python     Debian/UNIX System Administration     SystemVerilog    Hiking/Backpacking
JavaScript/jQuery    C     Java    AutoCAD/SolidWorks