

# ANDREW J. PLESNIAK

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## EDUCATION

### **Bachelor of Science, Mechanical Engineering**

*Expected April 2019*

University of Pittsburgh, Pittsburgh, PA

### **Minor in Electrical Engineering**

**Cumulative GPA:** 3.9/4.0

### **Relevant Courses:**

- Mechatronics, Automatic Controls, Embedded System Design

## HONORS

University of Pittsburgh Dean's List

*September 2015-Current*

University of Pittsburgh Scholar-Athlete Award

*January 2017-Current*

IBM - Thomas J. Watson Memorial Scholarship

*June 2015*

Frank W. Preston Engineering Scholarship

*June 2015*

University of Pittsburgh Chancellor's Nominee Scholarship

*September 2014*

## EXPERIENCE

### **Mascaro Center for Sustainable Innovation, Pittsburgh, PA**

*January 2016-Current*

### **Research Assistant to Professor William Clark**

- Currently developing a machine learning based smart heart stent for emergency military use
- Headed project evaluating new inertial measurement unit (IMU) technology for tracking real time motion
- Designed printed circuit boards (PCBs) to research high radio frequency ceramic chip antennas

### **Eaton Corporation, Pittsburgh, PA**

*May 2017-August 2018*

### **Research and Product Development Engineering Intern**

- Developed and tested new embedded system products being brought to market
- Setup, troubleshoot, and commissioned switchgear for Amazon and Equinix cloud data centers
- Programmed and wired automatic switching controls for complex power systems
- Performed testing on high power electrical equipment ranging from 480V- 38.5KV

## TECHNICAL SKILLS

- Computer Aided Design/Manufacturing (CAD/CAM) programs
  - SolidWorks, AutoCAD and Inventor
- Programming skills
  - C, Python, MATLAB, and web development
- Machine and Deep Learning
- Machine shop experience
  - Experience with CNC equipment
  - Fabrication of custom parts
- Rapid prototyping
- Embedded Circuit/PCB design
- Mechatronic/Cyber-Physical System Design

## LEADERSHIP

### **Engineering Student Council**

*September 2015-Current*

- Represents the interests of the students to the Swanson School of Engineering

### **National Society of Leadership and Success**

*September 2015-Current*

- Attends seminars and workshops to improve leadership skills

### **University of Pittsburgh Cheer Team**

*September 2016-Current*

- Acts as a Pitt ambassador at sporting and community events

### **Student-Athlete Advisory Committee**

*September 2017-Current*

- Nominated by team to help shape NCAA policy and interface with the athletic department