

# Timothy Ryan

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## Summary

I am a senior Mechanical Engineering Major from Worcester Polytechnic Institute. I currently have a 3.89 GPA and have completed coursework in a variety of topics including Thermofluid Application and Design, Advanced Engineering Design, Intro. to Computer Aided Design and Stress Analysis. I am knowledgeable of software such as SolidWorks, Revit and ANSYS.

## Education

### **Schalmont High School – Schenectady, NY | June 2017**

**GPA:** 4.0 (97.83%); Ranked Number Three in Graduating Class

### **Worcester Polytechnic Institute – Worcester, MA | Bachelor of Science**

**Major:** Mechanical Engineering, Class of 2021

**GPA:** 3.89

**Coursework:** Thermofluid Application and Design, Design and Optimization of Thermal Systems, Stress Analysis, Thermodynamics, Heat Transfer, Manufacturing and Material Science, Intro. to Manufacturing Engineering, Kinematics, Fluid Dynamics, Intro. to Computer Aided Design, Advanced Engineering Design

## Skills

Microsoft Office Programs (Excel, PowerPoint, Word)

CAD: AutoCAD, SolidWorks, ANSYS and Revit

Creating assemblies, drawings, and bill of materials (BOM)

Basic Knowledge of MATLAB and Python

## Activities and Accomplishments

### **Worcester Polytechnic Institute**

Aug. 2017-Present

Recipient of the WPI Presidential Scholarship

Recipient of the Heald Brothers Scholarship

Named to Dean's List 2018 Spring Semester, 2018 Fall Semester, 2019 Spring Semester

### **Member of the WPI Varsity Football Team**

Aug. 2017-Present

Named to the NEWMAC Academic All-Conference Team

### **Member of Sigma Phi Epsilon-Massachusetts Beta Fraternity**

Nov. 2017-Present

### **Elected Vice President of Finance for Sigma Phi Epsilon**

Nov. 2018-Dec. 2019

### **Elected Vice President of Finance for Interfraternity Council**

Dec. 2019-Dec. 2020

## Work and Volunteering History

### **Mechanical Engineering Intern | 05/2020 to 08/2020**

*Scratch, Play, Meow* – Schenectady, New York

Analyzed the manufacturability and implemented design changes to a product for cats.

### **Contractor Assistant | 05/2019 to 08/2019**

*DeMartino Builders* – Ballston Spa, New York

Assisted in many various tasks related to residential construction, including demolition and construction of interior and exterior structures.

### **Summer Camp Counselor | 05/2017 to 08/2017 & 05/2018 to 08/2018**

*Town of Rotterdam* – Rotterdam, New York

Supervised a group of children ages six to eight during the summer months, encouraged them to engage in physical activity and assisted in arts and crafts activities.

## Project History

### **Interactive Qualifying Project | 01/2020 to 03/2020**

Worked with the Centro Cultural Costarricense-Norteamericano to implement a "Get Green" campaign to improve the sustainability of the organization's operations in San José, Costa Rica.

### **Major Qualifying Project | 09/2020 to Present**

Currently developing Personal Protective Equipment, such as masks, using chemical vapor deposition (CVD) of carbon nanotubes and plastic injection molding in a laboratory setting at Worcester Polytechnic Institute.