

# Liam J. Walsh

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## EDUCATION

### **Carnegie Mellon University**, Pittsburgh, PA

Bachelor of Science in Mechanical Engineering

May 2019

GPA: 3.42/4.0; College of Engineering Fall 2015 Dean's List

### **Needham High School**, Needham, MA

High School Diploma

June 2015

GPA: 4.74/5.0; High Honor Roll

## RELEVANT COURSEWORK (\* denotes currently enrolled)

Thermodynamics\*

Statics\*

Calculus in 3D

Fundamentals of Prog. & CS

## PROJECTS

### **Carnegie Mellon Racing Push Bar**

February - June 2016

- Used SolidWorks to design and analyze the push bar for car 16e.

### **Influences on Public Opinion Towards Climate Change**

January - March 2016

- Researched how the media, as well as tactics of fossil fuel companies have shifted public opinion towards climate change. Presented my research at Carnegie Mellon's Meeting of the Minds symposium.

### **Solar Powered Phone Charging Station**

September 2014 - June 2015

- Led a project in high school Environmental Club to design and build a station with a battery and charging ports for cell phones. The battery was charged by a detached solar panel.

## EXPERIENCE

### **Object Management Group**, Needham, MA

Summer Intern

May - August 2016

- Designed and deployed an application to automate multiple aspects of data entry projects. Helped with general administrative tasks.

### **Nano Lab**, Waltham, MA

Summer Intern

June - July 2014

- Conducted research on resistivity of carbon nanotube ink; worked in lab environment.

### **Needham Track Club**, Needham, MA

Team Leader; Coach

June 2012 - August 2016

- Coached children ages 4-14; led group of counselors; officiated formal track meets.

## SKILLS

SolidWorks, Python, MS Office, Adobe Photoshop and Illustrator, Google SketchUp

## LEADERSHIP

### **Pedals System Lead, Carnegie Mellon Racing**

September 2016 - Present

- Currently designing, analyzing, and building the pedals assembly for car 17e.

### **TAA, Carnegie Mellon University**

September 2016 - Present

- Assisting TA by explaining concepts to students in small groups and answering questions.

### **President, Needham High Environmental Club**

2014 - 2015

- Organized and led meetings and projects, communicated with school administration and town.

## HONORS

Needham Exchange Club Scholarship Recipient

2015

National Honor Society member

2014 - 2015

MVP of 2014 Cross Country Season, Bay State League All-Star Award

2014

MathMovesU/Raytheon *Build it Better Contest* - "Better Bike Rack"

2013

- Third place finish in national engineering design contest

## ACTIVITIES

Carnegie Mellon Racing (Formula SAE)

2015 to present

Carnegie Mellon Track and Field

2015 to present

Needham High Cross Country, Track and Field

2011 - 2015

Needham High Engineering Club

2013 - 2015