

Liam J. Walsh

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EDUCATION

Carnegie Mellon University , Pittsburgh, PA	May 2019
Bachelor of Science in Mechanical Engineering, Engineering and Public Policy	
GPA: 3.58/4.0; College of Engineering Fall 2015 Dean's List	
Needham High School , Needham, MA	June 2015
High School Diploma	
GPA: 4.74/5.0; High Honor Roll	

RELEVANT COURSEWORK (* denotes currently enrolled)

Fluid Mechanics*	Stress Analysis*	Thermodynamics	Statics
Differential Equations	Calculus in 3D	Fundamentals of Prog. & CS	

PROJECTS

Carnegie Mellon Racing 17e Pedals Assembly	August 2016 - Present
<ul style="list-style-type: none">System Lead in charge of designing, analyzing, ordering parts for, and manufacturing the pedals assembly for this year's racecar.	
Carnegie Mellon Racing 16e Push Bar	February - June 2016
<ul style="list-style-type: none">Used SolidWorks to design and analyze the push bar for racecar 16e.	
Influences on Public Opinion Towards Climate Change	January - March 2016
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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 , Summer Intern - Needham, MA	May - August 2016
<ul style="list-style-type: none">Designed and deployed an application to automate data entry projects. Helped with administrative tasks.	
Nano Lab , Summer Intern - Waltham, MA	June - July 2014
<ul style="list-style-type: none">Conducted research on resistivity of carbon nanotube ink; worked in lab environment.	
Needham Track Club , Team Leader; Coach - Needham, MA	June 2012 - August 2016
<ul style="list-style-type: none">Coached children ages 4-14; led peer 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	August 2016 - Present
<ul style="list-style-type: none">Currently designing, analyzing, and building the pedals assembly for car 17e.	
TAA, Carnegie Mellon University	September 2016 – December 2016
<ul style="list-style-type: none">Assisted Physics I TA by explaining concepts to students in small groups and answering questions.	
President, Needham High Environmental Club	September 2014 – June 2015
<ul style="list-style-type: none">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 <i>Build it Better Contest</i> - "Better Bike Rack"	2013
<ul style="list-style-type: none">Third place finish in national engineering design contest	

ACTIVITIES

Carnegie Mellon Racing (Formula SAE)	2015 to present
Carnegie Mellon Track and Field	2015 - 2016
Needham High Cross Country, Track and Field	2011 - 2015