

Kevin O'Neill

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EDUCATION

CARNEGIE MELLON UNIVERSITY

BS IN MECHANICAL ENGINEERING

Expected May 2020 | Pittsburgh, PA

GPA 3.14 out of 4

Carnegie Institute of Technology

PROVIDENCE ACADEMY

GPA 3.67 OUT OF 4

2012 - 2016

National Honor Society Member

Graduated with Honors

LINKS

github.com/kevin4913

www.linkedin.com/in/oneillkevinj

COURSEWORK

Engineering

24-261: Statics

24-262: Stress Analysis

24-221: Thermodynamics I

24-231: Fluid Mechanics I

Mathematics

36-220: Engineering Statistics and
Quality Control

21-127: Concepts of Mathematics

21-259: Calculus in Three Dimensions

21-260: Differential Equations

Computer Science

15-112: Fundamentals of Programming
and Computer Science

15-122: Principles of Imperative Computation

SKILLS

SOFTWARE

SolidWorks • NX • PTC Creo

Fusion 360 • Python • C •

Matlab

MANUFACTURING

Laser Cutting • 3D printing •

Lathe • Mill • Drill Press •

CNC Mill

OTHER

Photography • Cooking • Golf

Skiing • Glass Blowing

EXPERIENCE

RELATIVITY SPACE | MECHANICAL ENGINEERING INTERN

June 2018 – August 2018 | Los Angeles, CA

- During my time, I worked on hardware integration for Relativity's Stargate printer.
- Created mounting hardware and installed welding, grinding, and sensor equipment on the Stargate printer.
- Worked with other team members to design and get manufactured face-plates for new positioners that were purchased.

GE ADDITIVE | ENGINEERING INTERN

June 2017 – August 2017 | Cincinnati, OH

- Aided in the development of the first meter class Direct Metal Laser Melt (DMLM) system.
- Gained extensive experience with both DMLM and Electron Beam Melt (EBM) machines as well as plastic and polymer based systems
- Created a comprehensive document consisting of both standard operating procedures as well as safety hazards for the additive system in development. This document has become the template for future systems developed by GE Additive.
- Worked extensively with other team members on calibration and build preparation on the proof of concept machine
- Designed and manufactured a prototype for more automated powder removal from finished EBM builds with another intern.

EXOGENIC | CO-FOUNDER

January 2017 - Present | Minneapolis, MN

- Exogenic is a health care start-up designed to develop braces allowing for the remote monitoring of patients post surgery.
- As co-founder, I am in charge of physical design, prototyping, manufacturing, and communicating with hospitals and physical therapists

CMU MAKERSPACE | TECHNICIAN

January 2017 - Present | Pittsburgh, PA

- Work includes maintaining laser cutters and 3D printers within the space as well as assisting students with projects

PROJECTS

CRANE PROJECT | 24-262 FINAL PROJECT

February 2018 - April 2018

- Along With my two teammates, we manufactured a crane to lift a 1 lb weight at least 2 inches using a servo motor
- By utilizing lathes and mills, as well as a complete CAD model, we were able to lift our weight 4.875 inches, which was second in the class.

MOUSETRAP CAR | 24-101 FINAL PROJECT

October 2016 - December 2016

- Created a mousetrap car that had to travel 17 feet and return in the fastest possible time
- Produced multiple iterations with my group mates and finished in the top 10% of our class

PRUNED | 15-112 TERM PROJECT

March 2017 - May 2017

- Created a game using python in which the user pruned a tree in order to control its growth and solve user created levels
- www.youtube.com/watch?v=MVRHxhC-wFA