

ADAM ZELOOF

Mechanical Engineer

✉ azz@cmu.edu 🌐 <http://adam.zeloof.xyz> 📍 Pittsburgh, PA & Stockton, NJ

EXPERIENCE

Manufacturing Engineer

SpaceX- Dragon 2 Mechanical Subassemblies

📅 May 2018 – August 2018 📍 Los Angeles, CA

- Designed and tested various manufacturing processes
- Wrote software to collect and process test results
- Conducted and oversaw flight hardware qualification tests

Designer, Welder, and Fabricator

Diversatech, Inc.

📅 August 2012 – Ongoing 📍 Pennington, NJ

- Designed vacuum chamber shutter system for a clean room environment
- Developed process for laser engraving titanium and steel in full color
- Engineered efficiency improvements to manufacturing processes
- Welded, formed metal parts, and operated CNC machines, lathes, mills, and other shop tools

PROJECTS

RotoMill

Carnegie Mellon University (24-441: Engineering Design II)

📅 January 2018 – May 2018 📍 Pittsburgh, PA

Designed and built a three-axis rotary CNC machine. Won first place in CMU design showcase and Editors Choice in World Maker Faire 2018.

Amateur Radio Station

Personal Project

📅 January 2017 – Ongoing 📍 Stockton, NJ

Researched, planned, and set up a 100-Watt Amateur Radio station, including a full lightning-protected grounding system.

Robobuggy

Carnegie Mellon University Robotics Club

📅 October 2016 – Ongoing 📍 Pittsburgh, PA

Designed and fabricated mechanical and electrical components of Robobuggy, a robot that races in a CMU tradition that is essentially an over-engineered, high-speed Soapbox Derby.

Babbage Difference Engine Replica

Carnegie Mellon University

📅 September 2015 – December 2016 📍 Pittsburgh, PA

Developed a working, scaled-down (tabletop), and laser cut replica of the Babbage Difference Engine, a mechanical computer from the 1800s.

EDUCATION

M.S. in Mechanical Engineering

Carnegie Mellon University

📅 Sept 2017 – May 2019

B.S. in Mechanical Engineering

Carnegie Mellon University

📅 Sept 2014 – May 2018

LEADERSHIP

President

CMU Robotics Club

📅 2015 – 2018 📍 Pittsburgh, PA

Eagle Scout

BSA Troop 194

📅 2013 📍 Flemington, NJ

Leadership Skills Instructor

National Youth Leadership Training

📅 2010 – 2014 📍 Columbia, NJ

SKILLS

Mechanical Drawing CAD FEA
CFD Welding (TIG & MIG) Soldering
Rapid Prototyping Waterjet Operation
Photography Graphic Design
Web Design UNIX Server Management

SOFTWARE

Autodesk Solidworks PTC Creo
NX Simulink EagleCAD
CorelDRAW Adobe Creative Cloud
Git

PROGRAMMING

MATLAB Python C/C++
CSS & HTML L^AT_EX Arduino