

ADAM ZELOOF

Mechanical Engineer

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🌐 <https://adam.zeloof.xyz>

EXPERIENCE

Mechanical Engineer

Boston Dynamics

📅 July 2019 – August 2021

📍 Waltham, MA

- Worked on multiple teams across the company, designing parts for Spot, Handle, Stretch, and unannounced projects
- Designed, analyzed, and tested complex robotic systems
- Worked with contract manufacturers to manage parts and system reliability in a production environment

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 – August, 2018

📍 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

PiMod Zero

Isotope Engineering

📅 February 2020 – August 2021

📍 Somerville, MA

Designed, prototyped, and brought to market a compact RF video modulator for the Raspberry Pi Zero, allowing it to be interfaced with vintage televisions.

T-RHex

Carnegie Mellon University

📅 January 2019 – May 2019

📍 Pittsburgh, PA

Designed and built a microspine-enhanced climbing hexapod robot inspired by the RHex platform.

RotoMill

Carnegie Mellon University

📅 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.

EDUCATION

M.S. in Mechanical Engineering

Carnegie Mellon University

📅 2017 – 2019

📍 Pittsburgh, PA

B.S. in Mechanical Engineering

Carnegie Mellon University

📅 2014 – 2018

📍 Pittsburgh, PA

Scottish Qualifications Authority Level 3 Diploma in Design

K2 Academy of Contemporary Jewellery

📅 2021 – 2022

📍 London, UK

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 GD&T Welding (TIG & MIG)
Soldering Rapid Prototyping
Photography Graphic Design

SOFTWARE

Catia Autodesk Solidworks Creo
NX Simulink KiCad CorelDRAW
Adobe Creative Cloud Git L^AT_EX

PROGRAMMING

MATLAB Python C/C++ Verilog
CSS, HTML & JavaScript Arduino