

ADAM ZELOOF

Mechanical Engineer

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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

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.

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.

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

Catia Autodesk Solidworks
PTC Creo NX Simulink KiCad
CorelDRAW Adobe Creative Cloud
Git

PROGRAMMING

MATLAB Python C/C++
CSS & HTML \LaTeX Arduino