

# 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

### 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

📅 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