

Andrew Zha

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EDUCATION

University of Colorado, Boulder
Boulder, CO
Bachelors in Mechanical Engineering
Expected Graduation: Dec 2027

August 2024-

Front Range Community College
Fort Collins, CO
Associate of Science, CAD Design Focus

August 2019- May 2023

WORK EXPERIENCE

CU Boulder, Boulder, CO August 2024 -
Robotics Researcher for ACME Lab, MAC Lab, and HIRO Lab
Design and prototype robotics kits for industry use and behavioral analysis(ACME).
Design and render VR/AR user-controlled interfaces for organic wing foil design process(ACME).
Test and analyze impact mitigation structures in helmets to improve sports player safety (MACLab).
Design and prototype human-inspired robotic skin for environmental awareness and mapping (HIRO Lab).

OtterBox, Fort Collins, CO July 2023- December 2024
Engineering Intern
Maintain and operate AM processes including printers and molding
Lead ME under Greg Castor for various Tech Dev projects in partnership with Apple + affiliates

James Gist, Fort Collins, CO August 2021- June 2024
Personal Engineering Technician
Build and prototype various projects involving electrical and mechanical engineering skills.

Upwork, Fort Collins, CO August 2022-
Freelance Prop 3D Modeler and Designer
Provided life-sized 3D models and prints for prop designers using various CAD design software such as Solidworks, Fusion 360, and AutoCAD.

CECFC, Fort Collins, CO August 2020- December 2021
Engineering Lab Intern
Initiated and prototyped a variety of projects using CAD design, manufacturing, soldering, and programming skills.

Tolmar Inc., Fort Collins, CO December 2021- August 2022
Manufacturing Technician
Maintained accurate and complete manufacturing department records. Led process and product improvement initiatives.

EXTRACURRICULAR ACTIVITIES

Ramaero, CSU, Fort Collins, CO August 2023- May 2024
Lead CAD Designer for Empennage and Wing

CERTIFICATIONS

DAssault Assemblies

SolidWorks CSWP

April 2023

SolidWorks CSWA

December 2022

Certiport

AutoCAD 2020 Professional

December 2019

AIMS Community College

Mechanical CAD Certificate

May 2023

Additive Manufacturing Certificate

May 2023

Front Range Community College

3D Printing and 3D Scanning Certificate

March 2023

Solidworks Certificate

March 2023

REFERENCES

Greg Castor, OtterBox Solutions Architect

greg.castor@otterproducts.com

Casey Hunt, ATLAS Institute Robotics Researcher

casey.hunt@colorado.edu

James Gist, Engineering Client

james.gist@gmail.com

434-825-5416

Nicholas Cassidy, OtterBox CAD Designer

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203-305-6353

Zachary Dunkin, OtterBox Protolab Manager

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970-212-6106

Lee Gates, OtterBox Sr. Mechanical Engineer

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