Alexander “Alexi” Peppas

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EDUCATION

Carnegie Mellon University | Pittsburgh, PA
Bachelor of Science in Mechanical Engineering | May 2026

WORK EXPERIENCE

Shift Robotics | Austin, TX | Mechanical Engineering Intern | June-August 2025
- Lead the refurbishment and repair efforts of over 50 pairs of Moonwalkers
- Assisted with the prototyping development of the next generation of Moonwalkers

Apple Inc. | Cupertino, CA | iPad Global Supply Chain Management Intern | June-December 2024
- Performed financial, logistical, and manufacturing design analysis for small parts on multiple iPad programs
- Traveled to China for in-person negotiations and manufacturing upkeeping with stamping and CNC vendors

Human Engineering Research Laboratories (HERL) | Univ. Pittsburgh | Student Researcher Intern | Summer 2023
- NSF REU Program by Dr. Rory Cooper: Contributed to and conducted research on assistive technologies
- Researched and designed a racing wheelchair made out of a single sheet of folded aluminum stock for lower cost, ease of material transportation, ease of manufacturing, and ease of customization for athletic performance
- Fabricated folded aluminum stock ultralight wheelchair and tested for impact strength and fatigue

PROJECTS

Carnegie Mellon University: Desk Organizer Project | Fall 2025
- Designed and constructed a prototype of a novel desk organizer; inspired by modular use cases and desk plants
- Designed for a specific user-case; communicated and updated with the user extensively during the development process

Carnegie Mellon University: Lightweight Collapsible Camping Chair Project | Spring 2024
- Designed and built a collapsible camping chair made from shock cord, PVC, 3D-printed PLA, and sewn nylon [Team of 3]

Carnegie Mellon University: FEA Load-Bearing Crank Project | Spring 2024
- Designed and built an acrylic mass-minimized crank using Force Element Analysis made to fail at a specific load applied in torque and bending with limited support [Team of 3]

LEADERSHIP

Carnegie Mellon Racing: Shop Manager | Spring 2023 - Summer 2024
- Organized and maintained industrial workshops for manufacturing and assembly of formula SAE electric car

Scotch ‘n’ Soda Theater: Assistant Head Carpenter| Fall 2023
- Manage the logistical and technical needs of designing and building a set for campus-wide performances

Bridge Point Elementary School: Annual STEAM Day Instructor | 2016 - 2021
- Developed and taught lesson plan for class on catapults for elementary school STEAM Day annual event
- Designed a ballista catapult for specific launch conditions, location, and payload

SKILLS

Design: FEA Analysis, MATLAB, SOLIDWORKS, AutoCAD, Siemens NX, PTC Creo, Python, ANSYS, Arduino
Logistical: Microsoft Excel, Data Analysis, Financial Management, Supply Planning, Manufacturing Design Analysis
Practical: CNC & Manual Machining, TIG Welding, Carbon Fiber Fabrication, 3D Printing, Laser Cutting
Media: Adobe Photoshop, Premier Pro, After Effects, Fresco, Procreate, Final Cut Pro

ACTIVITIES & HONORS

Boy Scouts of America:
- Eagle Scout Rank, Earned August 2018
- Senior Patrol Leader, Spring 2021
- Philmont Crew Leader, June 2021

Currently Listening to: David Bowie, Santana, and Earth Wind & Fire