KAIDEN CONTINO

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Engineering Portfolio | Looking for Co-op/Internship from May 2026 - Dec 2026

EDUCATION

Northeastern University, Candidate for Bachelor's Degree in Mechanical Engineering 05/2028
GPA: 3.71 Boston, MA
Activities: Northeastern Electric Racing, Student Exploration and Development of Space, ASME
Research: Silicon Synapse Lab, COBRA (Crater Observing Bio-inspired Rolling Articulator)
Honors: Spring 2025 Peak Experience Base Camp Award, Dean's List 2025 Spring
Abroad: Study Abroad: Saint Louis University - Madrid, Spain (Fall 2024)

El Camino College / South High School, Torrance, CA 06/2024
GPA: W 4.3 UW 3.7 Torrance, CA
College Certificates: Certificate of Mechanical Engineering Design Technician, CTE Engineering Design Pathway, CTE Systems Programming Computer Science Pathway
Honors: PLTW Scholar Student, President's Education Awards Program

RELEVANT EXPERIENCE

Student Researcher COBRA Project Northeastern University, Silicon Synapse Lab 01/2025 – Present
A snake-inspired lunar robot in collaboration with NASA's Artemis mission in exploring Shackleton Crater Boston, MA

- Researching space-capable design constraints, analyzing metal material selection, hermetic sealing methods, dual motor configurations, and lunar environment operation
- Leading research on Dynamixel motor coupling, testing current output under applied loads; recorded and analyzed data in Excel and presented results
- Converting PLA-based prototype to CNC-machined 6061 aluminum construction, achieving TRL 7-8 readiness through hermetic O-ring sealing with additional battery and voltage regulator

Northeastern Electric Racing, Vehicle Dynamics Subteam 09/2025 – Present
Boston, MA

- Developing control arm mechanisms for front/back rocker system optimization
- Validating and conducting FEA simulations in SolidWorks, confirming designs meet weight, cost, and manufacturability

TorBots 1197 Robotics FRC Team 04/2022 – 06/2024
Design Lead *(More in Portfolio)* Torrance, CA

- Designed and fabricated competition robots in Onshape within six-week timeline, adapting designs for available equipment: CNC, manual mill, and TIG welding for structural assemblies
- Implemented iterative prototyping using 3D-printed proof of concepts to validate designs before aluminum fabrication
- Coordinated subsystem integration across 30 member team in machining and electrical assembly
- Onboarded 15 freshmen through teaching Principles of Design and Onshape summer courses

Board Member | Competition Team Manager

- Organized and led STEM outreach events for local community, mentored students on engineering applications within team
- Managed high-pressure competition environment by coordinating team activities, communicating with officials, and maintaining all robot systems consistency and performance

TECHINCAL KNOWLEDGE

CAD/Programming Platforms: SolidWorks PDM, Onshape, Autodesk Fusion CAD/CAM, AutoCAD, Python, C++, Arduino, Ultimaker Cura, Bambu, Prusa

Statistical and Analytical Tools: MATLAB, ANSYS, Excel, PowerPoint, Word, STK

Hands-on Skills: Soldering, 3 Axis CNC, TIG Welding, Bridgeport Milling, Laser Cutter, Machine/Automotive Shop Tools

INTERESTS

Snowboarding, Surfing, Dirt-Biking/Off-Roading, Backpacking, Weightlifting, and Running