

Ciaran Nimick

Torrance, CA | ciarannimick@gmail.com | (310) 421 6908 | ciarannimick.com | linkedin.com/in/ciaran-nimick

Professional Summary:

A highly motivated and results-driven engineering student pursuing a Bachelor of Science in Mechanical Engineering looking to leverage 6 years of engineering software experience and teaching others into a boundary pushing experience during the summer of 2026.

Education:

Case Western Reserve University (CWRU) - Cleveland, OH	Expected Spring 2028
<ul style="list-style-type: none">Bachelor of Science in Engineering - Mechanical EngineeringRelevant Coursework: Thermodynamics, Statics and Strength of Materials, & Mechanical Manufacturing	

Experience:

Suspension Engineer at CWRU Motorsports	June 2025 - Present
<ul style="list-style-type: none">Designing the 2026 Baja SAE front lower suspension arm & tie rods, improving ride height, reducing weight, and serviceability.Utilizing Finite Element Analysis, validating multiple components within the front outboard assembly to withstand maximum moments and forces within a factor of safety to ensure components achieve design requirements.Aided in developing vehicle setups for different racing environments through adjustments to suspension and steering.	
Test Engineer at CWRU Motorsports	September 2024 - Present
<ul style="list-style-type: none">Analyzed and designed an adapter to transmit ~500 ft lbs of torque to aid in CVT development.Designed a shroud for the CVT Dyno in Siemens NX to dissipate 20kW of heat and ensure safe operation during testing.Fabricated components by utilizing milling, turning, and metal bending to meet precise design specifications.	
Teaching Assistant (EMAE 160 - Mechanical Manufacturing) at CWRU	August 2025 - Present
<ul style="list-style-type: none">Instructed students in manufacturing best practices, complete part definition, and design for the end-user.Taught 16 students an introduction to Solidworks part design, assemblies, and drawing best practices in preparation to take the certified Solidworks associate exam (CSWA).Graded ~180 manual sketching assignments, ensuring part dimensions were fully defined and projections were correctly drawn.	
Research Assistant at Case Western Reserve University (WAKANDA Lab)	March 2025 - August 2025
<ul style="list-style-type: none">Partnered with graduate researchers to explore magnetoreception in animals, aiming to translate biological navigation strategies into tools for interplanetary exploration.Aided in developing a predictive model for satellite movement in extraterrestrial magnetic fields, incorporating generalizable planetary and orbital parameters.	
President, Project Manager, & Lead Design at PVPHS VEX Robotics	August 2020- June 2024
<ul style="list-style-type: none">Designed twelve competition robots utilizing Onshape and Fusion 360 to design and implement team solutions.Won five local and state awards, leading to three State Championship and two National Championship qualifications.Oversaw a fourfold increase in annual funding, tripled team membership, and doubled the number of competition teams.Organized an inaugural robotics event, raising \$8,000 and earning congressional recognition from Congressman Ted Lieu.	

Skills:

Design: Siemens NX | SolidWorks | Onshape | Fusion 360 | Ansys

Manufacturing: GD&T | Mill | Lathe | Waterjet | CNC Router | Laser Cutter | Drill Press | Band Saw | Tube Bender

Software Languages: MatLab | C++ | Java

Awards & Achievements:

SMERT Department Award Winner	May 2024
PVPHS VEX Engineering Excellence Award	March 2024