

# Ciaran Nimick

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## Professional Summary:

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

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## Education:

Case Western Reserve University - Cleveland, OH

*Expected Spring 2028*

- Bachelor of Science in Engineering - Mechanical Engineering
  - Relevant Coursework: Thermodynamics, Statics and Strength of Materials, & Mechanical Manufacturing
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## Experience:

Suspension Engineer at CWRU Motorsports

**June 2025 - Present**

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Test Engineer at CWRU Motorsports

**September 2024 - Present**

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- Designing a shroud for the CVT Dyno in Siemens NX to dissipate 20kW of heat and safe operation during testing.
- Fabricated components by utilizing milling, turning, and metal bending to meet precise design specifications.

Research Assistant at Case Western Reserve University (WAKANDA Lab)

**March 2025 - Present**

- 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.

Onsite Robot Technician at Rolling Robots Inc.

**March 2022 - August 2023 & May - August 2025**

- Supervised and mentored students aged 7-14 in competition robotics, fostering technical skills and teamwork.
- Led student robot design classes using Onshape, preparing teams to compete at the state and national levels.
- Instructed and ensured safe usage practices of power tools, including band saws, drill presses, and various handheld tools.
- Specialized in teaching students, ages 6-8, the basics of programming in Roblox Game Studio and engineering Combat Robots.

President, Project Manager, & Lead Design at PVPHS VEX Robotics

**August 2020- June 2024**

- 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.
  - Created a VEX Boot-Camp for returning members enhancing competition, design, documentation, & communication skills.
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## Skills:

**Design:** Siemens NX | SolidWorks | Onshape | Fusion 360 | PreproMax (FEA)

**Manufacturing:** GD&T | Mill | Lathe | Waterjet | Laser Cutter | Drill Press | Band Saw | 3D Printer

**Software Languages:** MatLab | C++ | Java

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## Awards & Achievements:

SMERT Department Award Winner

**May 2024**

PVPHS VEX Engineering Excellence Award

**March 2024**

California VEX Robotics State Championship - Build Award

**March 2024**