

# Ethan Moronez

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## Education

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California Baptist University, *Riverside, CA*

**Bachelor of Science in Mechanical Engineering** (ABET Accredited)

Expected: May 2027

(3.9 GPA) Provost's List Fall 2024, President's List Spring 2025, Provost's List Fall 2025

## Technical Skills

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SolidWorks, MATLAB, Manual Lathe, Manual Mill, Python, AutoCAD, Microsoft Office, Microsoft Excel, 3D Printing, Fusion360, FEBio Studio

## Engineering Experience

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Formula SAE EV, California Baptist University, *Riverside, CA*

Aug 2024 – Present

### Suspension Team Member

- Assist with the design, build, and testing of the suspension for a Formula-style EV race car in a team of 6 engineers for competition against 80+ collegiate-level teams.
- Simulate and research designs and materials through finite element analysis to ensure an optimized system performance while meeting rules compliance.
- Manufacture and machine industry-standard components using CNC and manual lathes.
- Gain experience of the automotive engineering industry through 300+ hours of hands-on testing and communicating across other subassembly teams.

Simulation of Pelvic Floor Support Biomechanical Model Research, *Riverside, CA*

Sept 2025 – Dec 2025

### Research Assistant

- Assisted in the modification, refinement, and development of 3D anatomical geometries for a finite element model of the human pelvic floor.
- Utilized software such as FEBio Studio to simulate tissue behavior under realistic stress loads.
- Collaborated with a professor to analyze and prepare simulated data for publication.

2024 "Robot's Got Talent and Sensors" Project Competition

Nov 2024

- Designed, built, and demonstrated a robot that integrated multiple sensors for real-world interactions in a team of 4 multidisciplinary students.
- Accomplished 1<sup>st</sup> place through judgement of peers and professors on creativity, effectiveness, and efficiency against 8+ finalist teams in a course-wide competition.

## Professional Experience

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Wetzel's Pretzels, *Rancho Cucamonga, CA*

June 2024 - Present

### Assistant Manager

- Manage teams of 6-12 employees ensuring customer satisfaction and labor efficiency.
- Accurately process customer orders, handle payments, and ensure efficient service during busy periods.
- Execute the documentation of daily financial reports, communication with other third-party services, and any store maintenance issues.

California Baptist University, *Riverside, CA*

January 2026 - Present

### Math Tutor

- Tutor undergraduate students in multivariable calculus and lower-division mathematics courses, supporting both individual and small groups of 2-6 students with varying levels of preparation.
- Emphasize development of analytical thinking and solution strategy selection in lieu of solution memorization.
- Execute the documentation of daily financial reports, communication with other third-party services, and any store maintenance issues.

### Peer Mentor

- Support students facing academic and personal challenges through guidance on strategies including time management, study strategies, goal-driven mindsets and proper campus resource utilization.
- Apply flexible mentoring strategies to meet the needs of students from diverse academic backgrounds.