

Andrew Stollmeyer

San Diego, CA | Adstollmeyer@gmail.com | (760) 525-6464 | www.linkedin.com/in/andrewstollmeyer

Portfolio: andrewstollmeyer.com



Education

University of Colorado Boulder | Boulder, CO

Expected Graduation: May 2028

B.S Mechanical Engineering

Cumulative GPA: **3.75/4.0**

Courses: Thermodynamics, Materials Science, Statics, Differential Equations, Physics II, Calculus III

Activities: Formula Electric Racing (FSAE), Roxbury Robotics, American Society of Mechanical Engineers

Skills

Applications: SolidWorks (CAD/FEA), Creo Parametric, AutoCAD, Onshape, Revoscan (3D Scanning), Excel

Programming: MATLAB, Python, Java, C++, Arduino, ESP32, Raspberry Pi

Fabrication: CNC Routing, 3D Printing (SLA/FDM), Laser/Plasma Cutting, Lathe, Soldering, MIG Welding

Work Experience

HRE Performance Wheels | *Mechanical Engineering Intern*

May 2026 - Present

- Modeled wheel geometry in PTC Creo using parametric and surface techniques; ran FEA for vertical load, cornering fatigue, and radial cases against physical test standards
- Designed, built, and implemented a Raspberry Pi-based control system for 15 kW curing ovens featuring redundant safety interlocks, programmable ramp/soak profiles, run-data logging, and thermal-mass-tuned heat delivery, now running all HRE wheel production
- Built a browser-based wheel fitment analysis suite with DXF/PDF CAD parsing and an automated clearance solver; adopted company-wide, 800+ profiles processed
- Developed three additional internal engineering tools: C#.NET desktop apps that eliminate concurrent CAD and spreadsheet file conflicts, and a customer-facing web app generating standardized fitment measurement PDFs

Canyon Bicycles | *Showroom Assistant/Technician, US Headquarters*

Jan 2026 - May 2026

- Conducted demos and sales in a premium bike showroom while building technical expertise in Canyon products
- Utilized SAP, Salesforce, and Microsoft Suite to manage inventory, sales, and support daily operations

Gorelick Real Estate Advisors | *Maintenance Technician*

May 2025 - Aug 2025

- Worked on apartments across 10+ properties, handling appliance maintenance, unit flips, and custom part fabrication
- Delivered cost-effective, reliable solutions while building skills in customer service and project execution

Projects and Activities

FSAE Vehicle Dynamics R&D

Sept 2025 - Present

- Researched and designed center-locking hubs/nuts to reduce unsprung mass on FSAE vehicle
- Applied vehicle dynamics and material analysis to ensure safety, manufacturability, and performance
- Collaborated cross-functionally with suspension, chassis, and steering teams to ensure seamless hub integration

Motorized DSLR Camera Gimbal

October 2025

- Engineered a precision-encoded universal gimbal, with motorized focus and zoom controls, and onboard power
- Designed a precision gear system in SolidWorks, optimizing ratios to minimize backlash and motor stress
- Created a web-based control platform for manual operation and programmable time-lapse motion sequencing

Voice-Activated Retractable Projector Screen

July 2025

- Designed and built an ESP32-based retractable projector screen controlled using Home Assistant voice commands
- Created and analyzed a custom pulley-driven mechanism in SolidWorks, using FEA to validate component strength

Interactive Wind Tunnel Exhibit

Feb 2025 - Apr 2025

- Utilized SolidWorks to design and fabricate 50+ custom parts using 3D printing and laser cutting
- Designed custom Arduino circuitry to interface with a MATLAB GUI and autonomously operate the exhibit
- Collaborated with a team of three to design and construct an interactive wind tunnel exhibit about renewable energy