Grady Conwell

Pasadena, CA | **818-928-9441** | gradyconwell@icloud.com | 3.8 Cumulative GPA | gradyconwell.com

Mechanical and Mechatronic Engineering Major seeking an internship during Summer 2025 with a focus on design for manufacturing, hardware development, and testing.

EDUCATION

Pasadena City College | 2023-24

B.S. in Mechanical and Mechatronic Engineering | California State University: Chico

Expected Graduation: December 2027

EXPERIENCE

2023-25 | Self Employed, boutique stationary design and machining. | https://www.ebay.com/usr/grcon-1

- o Designed, developed, and tested turned components in a variety of materials.
- o Managed e-commerce, bookkeeping and shipping for international customers in 14 countries.
- o Drafted technical drawings and hired multiple suppliers to increase volume.
- o Achieved **100% positive feedback** across 350+ sales and 115+ written reviews.

2021-24 | Volunteer Mentor, FIRST robotics | La Canada, California

- o Collaborated closely with mentor team to instruct students from elementary and middle school weekly throughout a robotics competition season.
- o Facilitated and directed regional First Lego League Explore competitions.

ENGINEERING PROJECTS | See gradyconwell.com for pictures and details.

2021-22 | High Speed FFF 3d Printer

- o Used CAD tools, to draft and model an original design.

2022-24 | Benchtop Aluminum Router

- o Used CAD tools to develop a machine simulation and CAM post processor.

2024-Ongoing | Compact Gang-tool CNC Lathe

- o Fabricated aluminum frame and mineral casting.
- o Utilized FEA analysis to refine frame design.
- o Engineered CNC control cabinet and drive system with AC servos, sensors and closed loop stepper motors.

SKILLS

CAD & Parametric Modeling

- o Proficient in Autodesk Fusion 360 and SolidWorks (CSWP Certified).
- o Project experience with GD&T, Large Assemblies, Motion systems, Design for Manufacturing, Manufacturing Drawings. Can provide design samples.

Programming

- o Project experience with JavaScript, C++, Python and LaTeX.
- o Project and work experience with ESP32 devices, with a focus on manufacturing test equipment.
- o Matlab (coursework: Introduction to Technical Computing)

Other

- o Operation, Repair, and Maintenance of prosumer machines, esp. Prusa.
- o In-class project experience with PLC controls, pneumatic systems.
- o Working knowledge of graphic design tools (Affinity Designer & Publisher, InDesign, Illustrator).