Grady Conwell

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

Objective Statement

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

EDUCATION

La Canada Highschool | 2020-24

Pasadena City College | 2023-24 | 21 Credit Hours

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

- Designed, developed, and tested turned components in a variety of metals.
- Managed e-commerce, bookkeeping and shipping for international customers in 14 countries.
- Drafted technical drawings and hired job shop to increase volume.
- Achieved **100% positive feedback** across 300+ sales and 100+ written reviews.

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

- Instructed students from elementary and middle school weekly throughout a robotics competition season.
- Facilitated and directed regional First Lego League Explore competitions.

ENGINEERING PROJECTS | https://github.com/GradyConwell

2021-22 | High Speed FFF 3d Printer

- Used CAD tools, to draft and model an original design.
- Programmed machine routines using python and g codes.

2022-24 | Benchtop Aluminum Router

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

2024-Ongoing | Compact Gang-tool CNC Lathe

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

SKILLS

CAD & Parametric Modeling

- Proficient in Autodesk Fusion 360 and SolidWorks (CSWA Certified)
- Project experience with Large Assemblies, Motion systems, Design for Manufacturing, Manufacturing Drawings.

Filament based 3d printing

- Operation, Repair, and Maintenance of prosumer machines, esp. Prusa.

Fabrication

- Extensive in class project experience with Miller Machines welding Steel.
- Extensive experience with manual lathes, esp. small parts.

Programming

- Project experience with JavaScript, C++, Python and LaTeX.