Graham Dzengelewski

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OBJECTIVE

- Dynamic and solutions-oriented professional seeking a Mechanical Engineering role near Boston, MA.

EDUCATION

Bachelor of Science in Mechanical Engineering; Concentration in Manufacturing **June 2025**
California Polytechnic State University, San Luis Obispo
Cumulative GPA: 3.57; President's List: 2021-2022

RELEVANT EXPERIENCE

Senior Project - Power Transmission System, *Cal Poly – SLO* **September 2024 – Present**

- Manufacture a parallel two-axis power transmission system that is efficient of transmitting 25 horsepower through rotary motion of a shaft supported by bearings.
- Collaborate with team members to enhance gear precision for a successful balance of power delivered, input speed, and output speed.
- Manufacture gears using AGMA Standards Handbook.
- Incorporate engineering principles to perform stress and fatigue analysis.

Engineering Design Intern – Motor Head Putters, *Denver, Colorado* **January 2024 - August 2024**

- Led the design process of new golf putters using SolidWorks, employing advanced 3D modeling and simulation techniques to create intricate and optimized cast iron steel structures.
- Translated conceptual ideas into detailed technical specifications, ensuring precision and manufacturability when communicating with the foundry to produce accurate products.
- Implemented a systematic prototyping and testing approach to validate design concepts to produce 20+ physical models using 3D Printing.
- Communicated and collaborated with company co-founders to explore design options and conduct extensive market research.
- Developed sketches, 3D computer models, and research to perform material analysis and confirm product line successfully met United States Golf Association (USGA) regulations.
- Optimized weight distribution, balance, and overall performance to achieve a distinct competitive advantage in the putter market.

Vellum Furniture Design Project, *Cal Poly - SLO* **September 2023 - December 2023**

- Assisted an architecture student in creating a series of test models within finite spatial parameters and structural constraints as prescribed by the student's design assignment.
- Designed and developed a motor driven conveyor belt system with the use of parallel and series circuit theory.
- Integrated a DC motor to drive a belt mechanism, while implementing a precise speed and control feature.
- Developed electrical and mechanical systems to ensure seamless operation with an effective power transmission and a user-friendly braking mechanism.

RELATED COURSEWORK

- Fluid Mechanics; Heat Transfer; Thermal Systems Design; Design for Strength & Stiffness; Electric Circuit Theory; Chemistry I & II; Linear Analysis; Thermodynamics; Mechanical Vibrations; Measurement & Data Analysis; Dynamics; Statics; Mechanics of Materials; Materials Engineering; Computer Aided Manufacturing

SKILLS & ACTIVITIES

- Microsoft: Word, Excel, PowerPoint; MATLAB; CAD/SOLIDWORKS; FEA; Mastercam
- CNC Manufacturing; Mill; Lathe; Injection Molding; Casting; Sheet Metal Bending; Grinders
- President, Cal Poly Golf Club, 2022, 2023, 2024