



carterpriolo.com

CARTER PRIOLO

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SUMMARY

Seeking a position utilizing my heightened and honed skills as a Mechanical Engineer. Combining a passion for engineering, heavy experience in Solidworks, and a degree in Mechanical Engineering, I look forward to being a part of a successful engineering team.

EDUCATION

Mechanical Engineering – B.S.E.

Arizona State University | Tempe, AZ

August 2015 – May 2019

summa cum laude | GPA 3.82 | Dean’s List | *Academic President’s Scholarship*

Notable Courses:

- Statics and Dynamics
- Mechanics of Materials
- Heat Transfer
- Calculus
- Physics
- Numerical Methods
- CFD in ANSYS
- Manufacturing Processes
- Engineering Mechanics
- Mechanism Analysis
- Circuits
- Differential Equations
- Statistics
- Finite Element Analysis in ANSYS
- Computer Aided Engineering in Solidworks
- Control Systems

SKILLS

Technical – Solid modeling, stress analysis, material selection, manufacturing processes, fatigue, control systems, numerical methods, basic circuit analysis, statistical analysis, beam analysis and design, 3D printing, rapid prototyping, fluent shop skills and shop safety.

Software – Solidworks 2011-19 (CSWA Certified), ANSYS, MATLAB, Arduino, MS Office, LTSpice, Java Programming, Fusion 360.

PROJECTS

Senior Design Project – August 2018 – May 2019

- “Solar Powered Autonomous Pool Skimmer”
- Designed to collect floating debris, while detecting and avoiding walls and obstacles.
- As Manufacturing Engineer, I was responsible for all design processes, solid modeling, and orchestrated all manufacturing tasks and requirements, including drawing packages and a complete Bill of Materials.
- Carried out all thermal and structural analyses.

High School Engineering Design Project – Fall 2014

- “3D Printer Filament Extruder”
- Designed and manufactured a machine to create 3D printer filament using stock plastic pellets to provide a cheaper alternative than buying pre-fabricated consumer filament.

EMPLOYMENT EXPERIENCE

Facilities Manager – New Life Community Church | Peoria, AZ

June, 2012 – Present

- Manage the upkeep and mechanical maintenance of all aspects of the campus.
- Oversee and manage multiple facility employees and volunteers, delegating tasks and coordinating work schedules and responsibilities.
- Requires knowledge in mechanical, electrical, plumbing, carpentry, framing, computer hardware systems, sound and lighting systems, management, leadership.
- Notable Accomplishments: assisted in facilitation of six campus remodels, designed and implemented multiple stage sets, streamlined employee/volunteer scheduling, trained multiple employees to assist in day-to-day facility operations.