

**QUALIFICATIONS**

- 3+ years interdisciplinary design experience
- Strong team player, quick learner and self-starter, developed by working frequently in teams during engineering class projects
- Proficient with SolidWorks, MATLAB, Maple, and C++ programming
- Certified in Microsoft Word, Excel and Power Point

**EDUCATION****Bachelor of Science in General Engineering**

June 20XX

*Seattle Pacific University, Seattle, WA*

- GPA: 3.69, Dean's List, President's Scholar Award, Philip W. Eaton Scholarship

**RELATED WORK EXPERIENCE****Design Engineer**

September 20XX-Present

*Senior Design Project: Automated passive heating-cooling system, Seattle Pacific University; Seattle, WA*

- Collaboratively oversaw project from design and modeling to constructing and testing
- Designed sketches for proposals; prepared dimensions and materials used
- Developed mechanical interfaces and performed thermal analysis
- Recipient of a \$10,000 Puget Sound Energy Grant

**Appropriate Technology Site Worker**

Summer 20XX

*Students International Guatemala; Magdalena, Guatemala*

- Engaged in local culture and worked on community building projects with groups of 10+ indigenous individuals
- Redesigned chicken coops using lighter, cheaper material to ensure long-term sustainability

**Undergraduate Research Assistant Engineering Department**

Summer 20XX

*Seattle Pacific University; Seattle, WA*

- Developed PowerPoint modules for engineering courses to support professors course material
- Taught approximately 30 students the basics of engineering through 1:1 peer mentoring

**ADDITIONAL ENGINEERING EXPERIENCE****Design Engineer**

Spring 20XX

*Junior Design Project: Building Remote-Controlled Submarine, Seattle Pacific University; Seattle, WA*

- Designed mechanical elements to control movement in 6 directions
- Constructed the project physically and in SolidWorks to model it prior to building the submarine

**Research Conference Presenter**

May 20XX

*Erickson Research Conference; Seattle, WA*

- Researched various scenarios of a problem outcome to determine the best result
- Created a poster as a visual representation of the desired outcome
- Communicated the solution to the Mathematical Competition in Modeling problem

**HONORS****International Mathematical Competition in Modeling Honorable Mention**

Feb 20XX, 20XX

*Consortium for Mathematics and Its Applications; Seattle, WA*

# Erica Engineer

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## TECHNICAL SKILLS

**Languages**—LATEX (LaTeX), Python, PLC

**Software**—CATIA & NX, SAP ERP, SOLIDWORKS (CSWA, FEA, Surfacing), LabVIEW, MATLAB, MS Office

**Shop**—Manual Mill, Manual Lathe, Welding (Stick, MIG, and TIG), 3D Printers, CNC Machines

## GENERAL SKILLS

**Leadership**—Led four 25-member teams through complete design process to successful completion & implementation

**Communication**—Excellent written & oral English communication skills; strength interfacing with customers

**Teamwork**—Collaborative, Driven, Well-Rounded, Communicative, Problem-Solver, Enthusiastic for growth

## EDUCATION

### Bachelor of Science, Mechanical Engineering

June 20XX

*Seattle Pacific University, Seattle, WA*

- **Physics Minor:** Experimental Methods, Modern Physics, Physics Pedagogy
- **Awards:** Dean's Scholarship, Director's Grant, Vocal Performance Scholarship, Roy Swanson Scholarship
- **Relevant Coursework:** Engineering Project Management, Mechanical Design, Mechanics of Materials, Linear Algebra, Differential Equations, Statics, Dynamics, Thermodynamics, Fluid Mechanics, Heat Transfer

## INTERNSHIP EXPERIENCE

### Engineering Associate Intern

June 20XX - September 20XX

*Benz Air Engineering, Los Angeles, CA*

- Tested boiler power generating accessory for efficiency, longevity, & output potential
- Applied Root Cause Analysis and implemented solutions for structural & thermal issues encountered during testing
- Ported PLC data from test site into live updating Excel spreadsheet interface
- Optimized fuel-to-air ratio to reduce CO and NOx emissions
- Diagnosed issues with standalone boiler systems and implemented solutions for improved run-time and efficiency

## TECHNICAL PROJECTS

### Baja SAE Team Director

June 20XX - Present

*Seattle Pacific University, Seattle, WA*

- Lead diverse team of 20+ engineers to design, build, and race a prototype off-road vehicle, managing project scope, schedule & budget, to ensure progress on all stages of project's lifecycle
- Direct design & drafting process and work order preparation for chassis redesign, including weight reduction
- Acquired over \$20,000 in funding for complete redesign cycle of vehicle

### Design Team Member, Senior Design Capstone Course

September 20XX – Present

*Seattle Pacific University, Seattle, WA*

- Collaborate with 4 peers to organize meetings, create specifications & cost estimations, & perform risk assessments
- Design and manufacture biomass gasification system, organizing all materials, performing tests & engineering calculations, & carrying out all stages of project effectively

### Hybrid Magnetic Braking System Project Member

September 20XX - March 20XX

*Seattle Pacific University, Seattle, WA*

- Designed braking module to utilize Friction and Eddy Current Braking for use in highway vehicles
- Optimized method for longer run-time & higher braking factor; built Proof-of-Concept module to scale project

## ADDITIONAL EXPERIENCE

- |  |                          |
|--|--------------------------|
| • FIRST Robotics Team Alumni/Mentor   <i>SPU, Seattle, WA</i>            | September 20XX - Present |
| • Physics Learning Assistant   <i>SPU, Seattle, WA</i>                   | June 20XX - April 20XX   |
| • American Red Cross Certified Lifeguard   <i>YMCA, Mount Vernon, WA</i> | June 20XX - April 20XX   |

## INTERESTS

Running Marathons | Volunteering at animal shelter | Creative Writing | Renewable Energy | Baking | Automobile Repair