Jennifer R. Pyle

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EDUCATION:

Bachelor of Science, Mechanical Engineering
Minor in Computer Science
Colorado State University, Fort Collins CO

Graduation: May 2020

GPA: 3.4/4.0

ENGINEERING/COMPUTER SKILLS:

- **Languages**: Java, Python, C, C++, C#, JavaScript, SQL, HTML, CSS, JSON
- **Frameworks**: Node.js, React.js, Express, ReactStrap, Webpack, Maven, Jupyter, Pytorch, JUnit, Postman
- **Concepts**: Agile Development, Object Oriented Programming, Test Driven Development, Unit Testing, Coverage Testing, Continuous Integration
- **Other**: Linux, Eclipse, Git, Github, Scrum, Zenhub, Code Climate, Travis CI, Docker, Ubuntu, Raspberry Pi, Intellij, Eclipse
- **Relevant Coursework**: Software Engineering, Machine Learning, Operating Systems, Software Development with C++, Algorithms, Data Structures and their Applications, Statistics, Mechatronics(MECH), Machine Design(MECH)
- **Mechanical Engineering**: Solidworks, Creo Parametric, ANSYS, Fluent, LabVIEW, Matlab, CES

COMPUTER SCIENCE PROJECTS:

- Mobile, full-stack single page application and microservices using Agile software development - 2020
  - Created a frontend with React and Material UI, and a RESTful API through a backend written in Java and SQL
  - Utilized Github, Scrum, Test Driven Development, Unit/Coverage Testing, Inspections, Configuration Management, and Continuous Integration
- Machine Learning Digit Classification and Comparison - 2020
  - Applied nonlinear logistic regression using neural networks to train a classifier for a Street View House Number data set
  - Compared digit classification accuracy to handwritten digit(MNIST) data set
- Embedded/Iot Sound Analysis application - 2019
  - Programmed a Raspberry Pi based system which communicates with Telegram to record, analyze, and graph frequency of sound

PROFESSIONAL EXPERIENCE:

Mechanical Engineering Intern   June 2018- Aug 2018
Kaman Precision Products - Colorado Springs, CO
- Revised and documented engineering drawings incorporating Engineering Change Orders
- Supported IR&D research, general design analyses, and design validation

3D Printing Instructor   June 2017 - Aug 2017
URJ Six Point Sci-Tech Academy - Byfield, MA
- Developed curriculum and designed the structure of a 3D printing class at a STEM summer camp for teens
- Customized tutorials for 3D CAD and facilitated group discussions about additive manufacturing

EXTRACURRICULAR/LEADERSHIP:

Engineers Without Borders   Jan 2017-Dec 2019
- **Planning, Monitoring, Evaluation, Learning (PMEL) Lead** (Dec 2017-Dec 2018) - Worked with project leads to ensure programs are following EWB-USA process, and evaluated projects to ensure sustainability and feasibility

Alpha Sigma Kappa-Women in Technical Studies (STEM)   Mar 2016-May 2020
- **Social Officer** (Dec 2016-Dec 2017) - Organized internal and external chapter events, submitted an event budget for the chapter, and acted as a liaison between all other Greek organizations and AΣK