

# Kacie Salmon

**Address:** 923 N Saint Charles rd., Spokane Valley, WA 99037

**Email:** kacie.salmon@wsu.edu **Cell:** (509) 688-5330

---

## EDUCATION

**Washington State University** Pullman, WA

B.S. Mechanical Engineering

Expected Graduation Date: May 2019

Overall GPA: 3.99

## EXPERIENCE

**Electro-Optical Civil Space Intern, Raytheon Space and Airborne Systems, El Segundo, CA** Summer 2018

- Conducted thermal cycling and optical testing on JPSS 3,4 VIIRS optical assemblies.
  - Wrote and revised test procedures, handled hardware installation and experimental setup, ran test procedures, and organized data for analysis. Aligned autocollimators.
  - Prepared and assisted in Consent to Proceed, Consent to Break, and Engineering Failure Reviews.
- Assisted in assembly and alignment of inline compact cryocooler.

**Lab Technical Assistant, Dr. Leachman's WSU Hyper Lab, Pullman, WA** 2015-Present

- Continuous design work on lab space improvement, i.e. assembling LEAN benches and creating lab safety and lab themed (HYPER Games) posters.
- Conducted research on 3D printed reinforced polymer tensile testing at cryogenic temperatures; developed load machine cryostat, conducted testing using LN2, and found increased yield strength at cryogenic temperatures.

**STEM Summer Camp Counselor, Spokane Public Schools, Spokane, WA** Summer 2016

- Taught week-long summer courses to children K-3 about wearable electronics.

## LEADERSHIP

**WSU PNW-LSAMP Mentor** August 2016 - May 2017

- Mentored freshman minority students in STEM majors.
- Offered services to mentored students such as tutoring and scholarship assistance.

**WSU Cougs in Space President** August 2016- May 2017

- Wrote an accepted WSU cubesat proposal for NASA's Cubesat Launch Initiative with an advising professor and group of five students.
- Founded the Cougs in Space club to organize the cubesat project in January 2017.

## SKILLS

Experience with designing **small scale cryostats** and handling of **liquid nitrogen**.

Familiar with testing within and operating large scale **thermal vacuum chambers**.

Competent with **MATLAB, Solidworks Modeling and Analysis - CFD and FEA**, and **EES**.

Experience with **fabrication** for research as well as Bosch assembly.

Experimental experience with **thermocouples, strain gages** and **extensometers**. Also,

**FDM 3D Printing** experience with a Felix Pro 3D printer using reinforced thermoplastics.

Relevant Courses Taken: Fundamentals of Thermodynamics, Fluid Mechanics, Dynamics

## AWARDS AND HONORS

Boeing Outstanding Senior, 2018

Auvil Fellowship, 2018

Pacific Northwest Aerospace Alliance Scholarship, 2018

WSU Outstanding Junior and Sophomore in Mechanical Engineering, 2016/2017

WSU Regents Scholar, 2015

## ACTIVITIES

Society of Women Engineers 2016-Present

Tau Beta Pi 2017-Present