

Halley Granec

(651) 285-6839 | hgranec@mines.edu | hngranec@gmail.com | <https://www.linkedin.com/in/halley-granec/>

EDUCATION

Colorado School of Mines, Golden, CO

Mechanical Engineering B.S.

Focus in Energy

Current GPA: 3.42

Advanced Energy Systems M.S.

August 2020 – Present

Expected Graduation: May 2024

Expected Graduation: Dec. 2024

EXPERIENCE

Internship, Lawrence Berkeley National Laboratory, Berkeley, CA

SULI Intern & Building Technologies Student Assistant

June 2023 – Present

- Worked on Cold Climate Combi (CCC) Project
- Collaborated with student researchers from Harvey Mudd College to model a heat pump and thermal energy storage system
- Used Modelica to verify heat pump models
- The goal of the project is to develop a heat pump system for use in cold climate that would also help reduce energy costs
- Creation of 3 deliverables for SULI Program
- Presented a poster on my summer work via Fourwaves
- Will be continuing work with CCC project through Fall 2023 semester

Internship, Idaho National Laboratory, Idaho Falls, ID

SULI Intern & Infrastructure Security Intern

May 2022 – Dec. 2022

- R&D of PV Trailer
- Redesign and Improvement of deployable wind turbines
- Creation of 3 deliverables for SULI Program
- Minor literary analysis for rural load resilience project

Peer Mentor, Colorado School of Mines, Golden, CO

Aug. 2021 – Present

- Collaborate with faculty and peers to establish a positive first year experience
- Teach a section of 25 students in a classroom setting about campus policy, diversity, inclusion, and resources geared toward student success at Mines

Teaching Assistant, Colorado School of Mines, Golden, CO

Aug. 2023 – Present

- Work on grading homework assignments
- Hold TA Office Hours to provide course support to the students

Education Abroad, Madrid, Spain

Jan. 2022 – May 2022

- Universidad Pontificia Comillas
- Spent time learning about Spanish Culture
- Learned small phrases in multiple languages
- Fostered meaningful interactions despite language and culture barriers

SKILLS

Coding Languages

- MATLAB
- Python/Jupyter Notebooks
- Arduino
- GitHub & GitKraken

Modeling Software

- Modelica Modeling Language
- Dymola Modeling Interface
- BEOpt

CAD Software

- SolidWorks – CSWA & CSWP
- Experience with GD&T

Other

- Microsoft Office Applications
- Google Suite Applications
- Mathcad
- Engineering Equation Solver
- LabView
- Machine Shop Experience
- Fourwaves Presentation Platform

EXTRA-CURRICULARS

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|-----------------------------------------------------------------------|-------------|
| • Mines Club Ice Hockey: VP of Communications 2023-2024 Season | 2021 – 2023 |
| • Peer Mentor | 2021 – 2023 |
| • SWE Student Member | 2020 – 2023 |
| • ASHRAE Student Member | 2023 |