Liam Pohlmann

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SUMMARY

Liam is a driven and ambitious nuclear engineering student passionate about advanced fission reactor development, particularly in thermal hydraulics, heat transfer, and reactor design. His strong math skills drive innovative problem-solving, and he values integrity, transparency, and sustainability in his pursuit of a positive impact on the field of nuclear engineering.

EXPERIENCE

Idaho National Laboratory, Idaho Falls, Idaho — Jun 2023 – Aug 2023

- Student Undergraduate Laboratory Internship (SULI) Program
  - Published report under INL and SULI.
  - Explored topics in Sensor Anomaly Detection utilizing numerical methods and Machine Learning.
  - Developed strong questioning techniques to articulate specific needs and gather relevant information efficiently.
  - Effectively communicated professional goals and aspirations within the field, aligning personal growth with organizational objectives.
  - Embraced the importance of work-life balance and implemented strategies to maintain productivity and well-being.

University of New Mexico, Albuquerque, New Mexico — Feb 2023 – Current

- Undergraduate Research Assistant: Analysis and Modeling of Heat Diffusion in Materials Under Ion-Beam Irradiation
  - Supervised by Dr. Eric Lang, Assistant Professor of Nuclear Engineering
  - Conducting research on various materials and geometries, including material layering, to study heat diffusion phenomena. Solutions derived utilizing Finite Difference, Finite Element and/or Finite Volume Analysis.
  - Exploring potential applications and considering the research's viability for an undergraduate thesis project.

EDUCATION

University of New Mexico, Albuquerque, New Mexico — Aug 2021 – May 2025

- Pursuing B.S. in Nuclear Engineering and Mathematics of Computation
  - **Current GPA: 4.13/4.00**
- *Notable Completed Coursework*: Partial Differential Equations for Engineers; Introduction to Numerical Computing; Thermodynamics and Nuclear Systems, Introduction to Scientific Computing; Introduction to Transport Phenomena; Fusion Technology
- *Notable Courses in Progress*: Numerical Partial Differential Equations, Reactor Theory

SKILLS

LaTeX, High Performance Computing, Linux/Unix, Python, MATLAB, Microsoft Office Applications, LibreOffice Applications

AWARDS AND HONORS

Student Undergraduate Laboratory Internship Program	Jun 2023 – Aug 2023
University Nuclear Leadership Program Scholarship	2023 – 2024
School of Engineering Dean's List	Spring 2022, Fall 2022, Spring 2023

ADDITIONAL EXPERIENCE

University of New Mexico Nuclear Engineering Grader	Jan 2024 – Current
University of New Mexico Math Department Grader	Feb 2023 – Current
University of New Mexico STEM Tutor	Jan 2022 – Dec 2023

PUBLICATIONS

Sensor Anomaly Detection for Nuclear Reactor Systems Utilizing Linear Regression and K-Means Unsupervised Machine Learning — Idaho National Laboratory

- Publication number and link to be provided at a later time.

REFERENCES

Eric Lang, Ph.D. — University of New Mexico

- *Assistant Professor of Nuclear Engineering*
- **Email:** ejlang2@unm.edu **Office:** (505)-277-0772

Piyush Sabharwall, Ph.D. — Idaho National Laboratory

- *Department Manager of Irradiation Experiment Thermal Hydraulics Analysis*
- **Email:** piyush.sabharwall@inl.gov **Office:** (208)-526-6494
  Cell: (208)-403-4502