

# Elias Chavelaz

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## EDUCATION

**University of Notre Dame** | Notre Dame, IN May 2027

*Bachelor of Science*

Major: Electrical Engineering | Minor: Energy Studies

**Google Career Certificate In Cybersecurity** | Issued By Google, Online Certificate Oct 2024

*Courses: Foundations of Cybersecurity, Play it Safe, Connect and Protect, Tools of the Trade, Automate Tasks with Python*

## EXPERIENCE

**Mclearny fellowship** | Notre Dame, IN June 2024 – Present

*Community Engagement Ambassador & Digital Media Strategist*

- Spearheaded community-building initiatives with the OSE, fostering an inclusive campus environment for students.
- Orchestrated social media and dorm announcements, significantly increasing student engagement and campus awareness.

**Engineering Innovation Hub (EIH)** | Notre Dame, IN July 2024

*Process Engineering Intern*

- Collaborated in a team of 3 to optimize the instruction manual for the M-bot 2's Cyber Pi to teach highschoolers.
- Engaged with Professors, and conducted presentations to construct new projects for future, first year engineers.

**North Dining Hall** | Notre Dame, IN January 2024 – Present

*Closing Shifts: Student Worker*

- Disinfected, vacuumed, and organized the dining area of a 106,000 sq. ft building, specializing in closing shifts.
- Conducted routine maintenance of serving stations, catering events, and restocked inventory.

## ACTIVITIES

**Robinson Community Learning Center** | Notre Dame, IN September 2024 – January 2025

*Volunteer Bilingual Elementary Tutor*

- Provided one-on-one and group tutoring sessions in math and reading to elementary students in South Bends
- Managed any conflicts or challenges that arose during tutoring sessions, maintaining a positive learning environment.

**Notre Dame Rocketry Team** | Notre Dame, IN September 2023 – September 2024

*Safety Team Lead Member*

- A team composed of students from different engineering majors that compete in the NASA Student Launch.
- Compiled data using google sheets, google documents, and google drive to generate a safety manual and procedures.

## RELATED PROJECTS

**Data Visualization: CPU and GPU Technology** | University of Notre Dame December 2024

- Developed detailed 2D/3D graphs to explore technological trends and correlations in processing unit specifications
- Used C++ and Matplotlib to analyze and visualize the specifications of 2,185 CPUs and 2,668 GPUs.

**Energy Usage App Development** | University of Notre Dame April 2024

- Used MATLAB to create an App that analyzed the United States energy consumption, production and price.
- Designed with user interaction to be able to cross analyze Nuclear, Fossil Fuel, Renewable and Hydroelectric energy.

**Water Valve Design and Prototyping** | University of Notre Dame November 2023.

- Collaborated within a team of 3 to design, test, and develop 2 prototype temperature resistant valves using Solid-Works.
- Collected and analyzed 6 months' worth of research data in Microsoft Excel and performed stress test simulations.

## TECHNICAL AND LANGUAGE SKILLS

**Technical:** MATLAB, Python, C, C++, Arduino, Linux, SQL, Docker, Solid Works, SEIM tools, Microsoft Office

**Languages:** English, Spanish