

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

Washington Hall – Office of Student Activities | Notre Dame, IN April 2025 – Present

Building Manager

- Oversee operations of a historic performance venue, coordinating logistics for student & university-sponsored events.
- Serve as primary student contact, ensuring event setup, technical needs, and safety protocols are met.

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

Student Manager

- Supervise and lead a team of student workers during closing shifts in a 106,000 sq. ft. facility, ensuring timely sanitation.
- Coordinate end-of-day operations, including station maintenance, to maintain service quality and operational efficiency.

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 high schoolers.
- Engaged with Professors, and conducted presentations to construct new projects for future, first year engineers.

ACTIVITIES

McInerney 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.

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.

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++, Assembly, Arduino, Linux, SQL, Docker, Solid Works, SEIM tools, Microsoft Office

Language: English, Spanish