
Isaiah Padilla

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GOALS

I am currently studying mechanical engineering at Northern Arizona University. After I receive my Bachelor's Degree in Mechanical Engineering, I plan on continuing my studies at graduate school to obtain a Master's degree in the same major. As a dedicated engineer, I intend to pursue a job at Sandia National Labs in order to gain more experience in a local environment while focusing on the aforementioned doctorate. My life goal is to utilize my career to serve the good of the people, and I hope to find a direct or less direct path to this goal through my education and my employment in engineering. These goals are built to be as flexible as possible in order to allow for changing perspectives as I grow in my own personhood and in my career in engineering.

EDUCATION

Northern Arizona University, Flagstaff, AZ

August 23rd, 2021 - Current

Major: Mechanical Engineering

GPA (As of February 8th, 2024): 2.69

Coursework includes: Engineering Design, Differential Equations, Mechanics of Materials (Lecture and Lab), Materials Science, Thermodynamics, Heat Transfer, Capstone design project, Dynamics, Fluid Mechanics

Skills being currently developed:

- Statics and Mechanics-focused mathematical skills
- Real life application of customer interaction and development of products
- Use of shop tools (Lathe, CNC machine, 3D printers, etc.)
- 3D CAD capabilities

New Mexico Institute of Mining and Technology, Socorro, NM

August 17, 2020 - May 7th, 2021

- Entry study of A.I. processes, applications, and creation involving:
 - Extensive literature research
 - Use of complex models to perform desirable functions
 - Synthesis of multiple sources in reports
- Skill development of Arduino coding + breadboard wiring
- Skill development SolidWorks 2020 3D Rendering Software

The ASK Academy, Rio Rancho, NM

August 15, 2016 - May 27, 2020

Received High School Diploma

Studies emphasized Engineering-related studies

- Introduction to various engineering fields, such as aerospace, civil, and electrical
- Extensive experience with Autodesk's Inventor and Revit programs
- Coursework included: Chemistry, AP Calculus AB, AP US History, AP Literature, AP US Government and Economics, AP Physics
- Graduating GPA: 4.1892

EXPERIENCE

Global Security Analysis and Simulation Internship - Sandia National Laboratories

July 26th 2021 - Current

- Conducted research and literature review upon multiple security-related events to report in the form of technical papers
- Worked alongside fellow engineers to present results and findings to higher-level management
- Maintain proper time management to mesh school and work schedules
- Responsible for taking initiative with self-guided assignments and team communication
- Further details available upon request for an interview, unable to elaborate further out of concern for operational security

Los Alamos Inaugural 2019 Governor's STEM Challenge – High School Engineering Design team

- Leader of the "Accounted 4" team.
- I lead my team of ten engineering and biomedical students to create a fully functioning prototype designed to help maintain order in chaotic school-related events such as gun violence, fires, or natural disasters by providing a portable ID database which students could carry out to predetermined reunification points at which they would scan their RFID ID cards, thus providing emergency personnel with necessary information regarding safety and location.
- As team leader, I organized weekly meetings, managed team budget, created task lists for the sub-teams, and acted as spokesperson for the team when coordinating with school and competition officials to secure our entry in the event.
- The team was awarded a sponsorship grant by RS21, a data mining company looking to optimize data usage with the intent of improving not only the business world but also the political, economic, and environmental worlds.

Campus Newsletter Journalist

Oct. 26th, 2020 – May 7th, 2021

- Authored several articles on a bi-weekly basis
- Interviewed staff personnel and students on various subject matters
- Expanded upon interpersonal and time management skills
 - Former was improved through repetition of interviews and approach of different backgrounds
 - Latter was expounded upon by prioritizing necessary communications to meet tight schedules and deadlines
- Highly independent position, with weekly meetings to inform all staff members of progress

Dion's

October 19th– May 7th, 2021

- Entry-level employee w/ 2 years of experience
- Heavily experienced in customer interaction while maximizing and prioritizing quality as well as speed
- Inspired the creation of a minor official process which maximized orders' organization and minimized the risk of confusion