Fernando Antonio Mendez Estrada

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EDUCATION

Bachelor of Science in Aerospace Engineering	Degree expected: Dec 2023
Bachelor of Science in Mechanical Engineering	Degree expected: May 2024
New Mexico State University (NMSU)	Las Cruces, New Mexico	Transfer Student, GPA in progress
Aerospace Engineering	Degree expected: Dec 2023
Autonomous University of Chihuahua (UACH)	Chihuahua, Mexico	GPA~ (3.8/4)
Programming Technical	May 2019
High School CBTis (Technological, Industrial and Service High School Center)122	Chihuahua, Mexico	GPA ~ (3.8/4)

WORK EXPERIENCE

Suspension and Ergonomics Design Engineer   **Las Cruces, NM**
Mini Baja SAE (NMSU Chapter)   Aug 2022 – Present
- Calibrating the suspension system to make sure that both arms have the same angle.
- Learning how to use tools such as CNC machine, sheet metal folder machine and work with sheet metal and steel bars.

Co-op Manufacturing Engineering   **Chihuahua, Mexico**
EZ AIR (Safran, Aerospace Industry)   Jan 2022 – Jul 2022
- Focused on maintaining, developing, and operating manufacturing systems.
- Provided support to the line production and solved issues and delays.
- Created a software with python, excel and visual basic to improve communication between the engineers and managers, this software was designed to assign tasks between the areas in the company and receive notifications on their email about what they need to do.
- Created a program that automatically shows on a Pareto Chart the daily, monthly, or annually metrics about the parts that were consider as scrap.
- Made software to improve the organization for the production in the entries and exits in inventory management, helping to avoid that the tools get lost or damaged.
- Used of CatiaV5 to analyze and get the 2D plane of the parts and design templates for production to avoid the production mistakes.
- Tested new and existing production procedures.
- Improved a drill press machine to get better and more efficient the times on the countersink process in the production.

Customer Service   **Chihuahua, Mexico**
Teleperformance (NRG Energy – Major Energy Company in Texas, U.S.)   Aug 2021 – Dec 2021
- Provided product information, answered questions, and resolved any emerging problems that our customer accounts could face with accuracy and efficiency.
- Recognized as top seller on site for the brand.
- Awarded White Belt Six Sigma Certification.

Teacher   **Chihuahua, Mexico**
Apprendre   Jan 2021 – Dec 2021
- Administrated and managed the schedule for the classes.
- Taught classes in math, calculus, pre-calculus, differential equations, physics, mechanical of materials, programming (python, java)
- Provided tutoring services to help the high school and college students to boost their grades.

Design and Control Aircraft   **Chihuahua, Mexico**
AIAA (The American Institute of Aeronautics and Astronautics) UACH   Aug 2019 – Jan 2022
- Created designs for an UAV, involved in the stability configuration such as tail and empennage design.
- Participated in the research team.
- Proposed conceptual designs for an agricultural and security drone.
- Helped with the wings and fuselage drone manufacture aircraft.
- Developed software that compute landing and takeoff distance iterating between different lift coefficients.

VOLUNTEER EXPERIENCE

Computer Science Tutor   **Chihuahua, México**
UACH (Advanced Program)   Jan 2022 – Jun 2016
- Designed and implemented academic activities to help high school students to learn basic programming concepts e.g., fluid charts and basic data structures.

RELEVANT SOFTWARE PROJECTS

Mobile Application: A mathematical software application for solving problems in physics with theorical information.
- Designed and implemented the graphical user interface of the application using Android Studio.
- Presented at the National and State Contest of Prototypes in 2019.

COMPUTER PROFICIENCIES

Programming Languages:
- Proficient in Python, MATLAB, Visual Basic and Java.
Development Environments:
- Proficient in Android Studio, Visual Studio Code, CatiaV5, NX (Siemens NX), AutoCAD, Solid Works, MS Office.

LANGUAGE PROFICIENCIES

- Spanish – Native; Can speak and write fluently   English – Can speak and write fluently   French- Basic reading and writing