

# 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

### Bachelor of Science in 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 Design

Las Cruces, NM

Mini Baja SAE (NMSU Chapter)

Aug 2022 – Present

- Calibrating the suspension system making sure that both arms have the same angle and same length.
- Sketching the templates for the Sheet Metal panels on the chassis.
- Learning how to use tools, such as sanding machine, sheet metal folder machine and working with sheet metal and steel bars.

### Tutor

Las Cruces, NM

Doña Ana Community College

Oct 2022 – Present

- Tutoring the subjects PHYS (1230, 1310), CS (111, 151, 171, 172), MATH (1220G, 1250G)
- Helping struggling students improve their critical thinking and problem-solving skills.
- Assisting students with homework, projects, test preparation, research papers, and other academic tasks.
- Providing tutoring services to help high school and college students to boost their grades.

### Co-op Manufacturing Engineering

Chihuahua, Mexico

EZ AIR (Safran, Aerospace Industry)

Jan 2022 – Jul 2022

- Maintained, developed, and operated manufacturing systems to support production as well as solved issues and delays.
- Developed a software using Python, Excel and Visual Basic to improve communication between engineers and production. The software assigned tasks to engineers in distinct company areas and provided notifications via email about which actions needed to be prioritized.
- Developed a program that automatically displays a Pareto Chart the daily, monthly, or annual metrics of the parts considered as scrap.
- Developed software to improve inventory management, particularly entries and exits in the inventory. The software avoided losing and damaging relevant tools.
- Impacted the work by utilizing continuous improvement tools.
- Controlled manufacturing and quality engineering in the assembly, test, and final parts.
- Used CatiaV5 to analyze and get 2D plane of the parts. Designed templates for production to avoid production mistakes.
- Tested new and existing production procedures.
- Improved a drill press machine to obtain more precisely and efficiently the timing on the countersink process in 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.

### 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 as a member of the research team and 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 learn basic programming concepts e.g., fluid charts and basic data structures.

## RELEVANT SOFTWARE PROJECTS

### Mobile Application:

A mathematical software application for solving physics problems using theoretical 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

### Certifications

- Spanish - Native
- English - Advanced
- French - Basic

- White Belt Six-Sigma
- MS Office