

FABIAN VAZQUEZ

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EDUCATION

The University of Texas Rio Grande Valley
M.S. Computer Science

Anticipated Graduation: May 2024

The University of Texas Rio Grande Valley
B.S. Mechanical Engineering, **Honors:** Magna Cum Laude, Tau Beta Pi, Dean's List

Graduation: May 2022
GPA: 3.77

Relevant Coursework: Data Structures and Algorithms (Coursera), Operating Systems, Theory of Computation

Technical Skills: Python (1yr), Rust (2mo), SolidWorks, Git, MATLAB, Microsoft Excel, Word, PowerPoint

EXPERIENCE

Colorado Engineering Inc., Colorado Springs, CO
Mechanical Engineering Intern

June – August 2021

- Decreased manual labor time by 70% by designing and 3D printing templates used for bending, measuring, and cutting semi-rigid copper wires
- Reduced print time of 3D models by 30% while maintaining print quality by optimizing filament flow with increased axial movement speeds

Colorado Engineering Inc., Colorado Springs, CO
Mechanical Engineering Intern

June – August 2020

- Innovated PCB mounting operation by communicating with engineers to create a versatile mount on SolidWorks, 3D print prototypes, test, analyze, and fix them for best solution
- Solved overheating issues of 50 different circuit board components by using thermal analysis to acquire heat sinks and fans for testing operations

Colorado Engineering Inc., Colorado Springs, CO
Engineering Intern

June – August 2019

- Increased success rate of 3D prints to 95% by performing 3D printer routinely maintenance, replacing hardware, calibrating, and fine tuning through test prints
- Verified paperwork of more than 3000 parts of inventory on company database by creating an Excel spreadsheet to organize and track progress

PROJECTS

Calculator App, Personal Project

September 2022

- Used **Python** to create a desktop calculator app, enabling students to easily carry out common mathematical operations and check their work

CSCI-6334, Operating Systems, Personal Project

September 2022

- Used **Rust** to create a guessing game to showcase the application of common programming concepts such as variables, loops, functions, conditions, and basic data types

LEADERSHIP/ACTIVITIES

Teaching Assistant, Manufacturing Processes Lab

August 2021-May 2022

- Managed teams of 6-7 students throughout laboratory experiments by communicating instructions, assigning tasks, supervising work, and maintaining lab safety
- Actively learned labs ahead of time to understand procedures, safely operate different machines, and effectively communicate with students