Saratoga Springs, Ut, 84043.
MARLONMANCILLAM@OUTLOOK.COM - (321) 289-1275

MARLON MANCILLA MARTINEZ

Physicist

PROFESSIONAL SUMMARY

Driven Physics graduate with hands-on experience in laboratory research, programming, and teaching. I am skilled in data analysis, numerical simulations, and problem-solving, with expertise in Python, MATLAB, and Arduino. Passionate about applying technical knowledge to real-world applications, whether through software development, data analysis, or critical thinking.

EMPLOYMENT HISTORY

UVU PREP TEACHER ASSISTANT
Utah Valley University | May 2024 – Aug 2024

- Supported lectures, enhancing student engagement and understanding.
- Graded assignments, providing timely feedback to improve learning outcomes.
- Monitored attendance, ensuring accurate records for class management.
- Facilitated students' activities, fostering a collaborative learning environment.

TEACHING ASSITANT & TUTOR
Utah Valley University | Aug 2020 – Oct 2024

- Conduct study groups, significantly improving student performance and academic outcomes.
- Develop interactive learning tools, mentoring students for measurable academic growth.
- Create a positive learning environment, boosting student engagement and satisfaction.
- Improve student grades by 30%, demonstrating effective tutoring strategies.

UNDERGRADUATE PHYSICS RESEARCHER
Utah Valley University | Aug 2022 – Sep 2024

- Analyze data to enhance sensor accuracy, achieving measurable drift compensation results in radar projects.
- Process images with Python libraries to improve contrast and reduce noise effectively.
- Collaborate Opens CAD, AutoCAD, SolidWorks projects.
- Develop Python systems for real-time data collection, boosting precision and efficiency.

EDUCATION

Bachelor of Science and Physics. – GPA: 3.06
Utah Valley University | Expected July 2025

SKILLS

Programming: Python, MATLAB, C++ , SQL, Mathematica.
Hardware & Tools: Arduino, Excel
Other: Data Analysis, Technical Writing & Scientific Writing.

INTEREST

I'm really into building things that combine hardware and software — like small IoT projects or automation tools. I enjoy coding up simulations, playing with data to find patterns, and exploring how physics can be used in areas like clean energy or healthcare tech. I also like sharing what I learn with others, whether it's through mentoring or working on collaborative projects.