MATEO ESTRADA

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Medford, OR 97501

Bitbrane.com

PROFESSIONAL SUMMARY

Post-bacc student currently working on a degree in computer science to gain the skills necessary to go into the Machine Learning field. Seeking a position in an REU in Machine Learning. Have worked with solar cell semiconductor processing, literature reviews and data synthesis and analysis. Skilled in creating efficient systems to organize and manage experimental data. Skilled in Python Libraries for graphing and visualizing of equations. Currently working on project Bitbrane, an Ecommerce framework for fast development of static Ecommerce websites.

SKILLS

- Physics: emphasis in calculations and visualization of classical physics, quantum mechanics, and general relativity concepts using Mathematica
- Programming: experience in Mathematica and Python for developing quantum mechanics equation visualizations
- Computer Science: developing static website from domain to markup language writing in CSS, HTML, and JavaScript
- Engineering Processes: solar cell production process from silicon ingot to fully functional solar cell
- Research: semiconductor devices data analysis and visualization
- Machining: CNC, drill press, and mills

EDUCATION

Oregon State University
Corvallis, OR • Expected in 06/2021

Bachelor of Science: Computer Science

Oregon State University
Corvallis, OR • Graduated 06/2019

Bachelor of Science: Physics

RELEVANT WORK HISTORY

College Assistance Migrant Program - **Mathematics Tutor**
Corvallis, United States • 01/*2018 - 06/2019*

- Established a professional tutoring relation with College Assistance Migrant Program (CAMP) students to assist their successful completion of calculus I, and II, and Chemistry for engineering to maintain a 3.0 GPA to be in CAMP Honor Roll 3.25

Quantum Energy and Sustainable Solar Technologies - **Researcher**
Tempe, AZ • 05/*2018 - 08/2018*

- Research on applications of semiconductor silicon, primarily focusing on collecting and analyzing data for measuring contact resistance of solar cells to generate a new way of measuring resistance in high-efficiency heterojunction cells
- Tools used included LaserJet for precision Machine cutting, soldering busbars on PV cells, chemical vapor deposition on Plasma Chamber, resistance measurements on 2400 Keithley source meter
- Chemical processes included Texturing for reducing reflectance and shaving off surface damage of silicon wafers
- Data analysis
- Prepared data results for communication both orally and in paper for my undergraduate physics thesis.

Astronomy Open House: OSU - **Research Assistant**
Corvallis, OR • 10/*2017 - 01/2018*

- Computational astronomy with Python: troubleshooting a model of a binary system of blackholes using classical fictitious forces such as Coriolis effect, centripetal forces, and centrifugal forces, in an effort to model the collision of two blackholes of equal mass