Mateo Estrada

Computer science and physics student

CAREER ASPIRATIONS: My career goal is to become a software developer. My plan to achieve my goal is to be involved in quantum computation algorithms research and development. I've got experience in physics and in computer science and by integrating the accured knowledge from the two I hope to achive my aim.

Personal Info

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Skills

CNC	Good
Drill press	Average
Machining Engineer	Average
Physics	Excellent
Soldering	Average
Data analysis	Very Good
Data visualization	Very Good

Work History

2017-12 - 2019-05

Tutoring

College Assistance Migrant Program, Corvallis, OR

- Help students learn differential equations and Chemistry for engineering to keep them in Honor Roll for College Assistance Migrant Program at OSU.

2018-04 - 2018-07

Renewable Energy Engineering Research Intern

Quantum Energy and Sustainable Solar Technologies, Tempe, AZ

- Research on applications of the 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 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.

2016-10 - 2019-05

Activity Instructor

Astronomy Open House: OSU, Corvallis, OR

- Volunteer as a coordinator and an activity

Scientific Research — Very Good

Scientific writing — Very Good

Solar cell manufacture — Average

Microsoft Suite — Ecellent

Software

Python — Good

Mathematica — Very Good

C++ — Good

Languages

Spanish — Native

demonstrator to teach the public about astronomical events such as the Solar Eclipse which occurred on August 21, 2017.

2017-10 - 2018-02

Computational Physics

Astronomy Project, Corvallis, OR

- Programming a binary system of black holes and testing their gravitational strength at various distances using the programming language python.

2015-06 - 2015-08

Machining Engineer Assistant

College Dreams, Medford, OR

- Worked at a machine shop as an engineer assistant.
- Drawing, designing parts for tools, as well as machining metal with various tools like CNC, drill press, and mills.

2014-07 - 2014-08

Junior Volunteer

Asante Hospital, Medford, OR

- Volunteered at an IT department setting up monitors, changed batteries on UPS power backup supplies, moved various computers from various locations, installed printers, and scanners.

Education

2015-09 - 2021-06

Bachelor of Science: Physics and Computer science

Oregon State University

- Physics thesis: "Contact resistance: the return of the Cox and Strack method for heterojunction solar cells."
- Computer Science project: TBD Fall 2020