

OPTICS116

Email: · Phone:

LinkedIn:

EDUCATION

University of Oregon '18 (*expected*) Eugene, OR
M.S. in Applied Physics Optical Materials and Devices

Whitman College '17, Walla Walla, WA
B.A. in Physics, *Academic Distinction*

GPA: 3.52

TECHNICAL SKILLS

Languages: Python

General: Mathematica, OpticStudio, MATLAB, LabView, Maple, L^AT_EX, Invision, Unix OS (Mac/Ubuntu)

RESEARCH EXPERIENCE

Undergraduate Physics Research Assistant

Summer 2015

Whitman College
Walla Walla, WA

Faculty Adviser: Greg Ogin

- Constructed a vacuum chamber by acquiring and assembling parts in a short timeframe. Concluded by writing the standard operating procedure and reaching a vacuum of 0.384 mtorr.
- Designed and developed a seismic stack that fulfilled multiple constraints while also minimizing time and cost. Tested multiple configurations and analyzed data using available motion sensor and software.
- Gained knowledge with optical equipment and devices through hands on experience with interferometers, function generators, etc.
- Collaborated with two other students to write a computer program that optimized parameters for mirror configurations using Mathematica.

RELATED EXPERIENCE

CS Lab Consultant

August 2015 - May 2017

Whitman College
Walla Walla, WA

Supervisor: Dustin Palmer

- Provided assistance and facilitated peer discussion to students on programming assignments by guiding them through the debugging process.
- Efficiently diagnosed and resolved technical difficulties, articulating more complex issues to supervisor.

Mobile App Designer

August 2015 - December 2015

Whitman College
Walla Walla, WA

Faculty Adviser: Janet Davis

- Designed a mobile app with a small team to connect students, families, and other community members to outdoor recreational activities in local college town by creating a usable, interactive prototype.
- Continually improved prototype design by seeking negative feedback expressed by testers. Prioritized areas for refinement in each iteration.
- Presented a live demo of the final interactive prototype at Whitman's annual Undergraduate Conference to stakeholders, professors, and peers.

Website: <https://invis.io/JA4UNOVST>

REFERENCES

Can provide contact information upon request.

- Assistant Professor of Physics: Greg Ogin, Whitman College
- Math and Computer Science Technology Specialist: Dustin Palmer, Whitman College
- Professor of Computer Science: Janet Davis, Whitman College