Andrew Block

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EDUCATION

MINNESOTA STATE UNIVERSITY MOORHEAD, MOORHEAD, MN
Bachelor of Science in Physics, May 2018
- GPA: 3.82

WORK EXPERIENCE

PACE ANALYTICAL
Laboratory Analyst, January 2021- Present
- Support 3M IATD in the development of tapes and adhesives used in industrial settings.
- Prepare and test samples of adhesives for various properties
- Assist 3M engineers by analyzing data from testing in order to make decisions about changes that may need to be made to a product .

DESIGN TECHNICAL SOLUTIONS
Production Technician, October 2020 - January 2021
- Assist in the production of transdermal patches by ensuring patch converter is operating correctly and suggesting changes to be made in the case of malfunctions.
- Take in-process quality control samples to ensure the product made is high quality and complies with FDA and DEA requirements.

UNIVERSITY OF OKLAHOMA
Graduate Teaching Assistant, August 2018 – August 2019
- Lead lectures in undergraduate physics and astronomy courses.
- Created and wrote course materials such as syllabus, visual aids, answer keys, and course notes.
- Graded student lab reports and assignments.

MINNESOTA STATE UNIVERSITY MOORHEAD, MOORHEAD, MN
Learning Assistant, August 2015 – May 2018
- Lead lab sections of introductory physics and astronomy courses.
- Assisted students with data collection and analysis.
- Assisted in the grading of student lab reports.

MINNESOTA STATE UNIVERSITY MOORHEAD, MOORHEAD, MN
Student Researcher, May 2016 – August 2016, May 2017 – August 2017
- Developed Python code to perform aperture photometry on an image and match light sources to GAIA to find asteroids in images.
- Used a research grade telescope and cameras to collect images of the night sky to be used in the asteroid detection code.
- Assisted in upgrading the observatory by setting up a new camera, installing the new camera, and rewriting the astronomical observing manual in LaTeX.

SKILLS

- Knowledge of physics and physical laws
- Microsoft Office Suite
- Advanced Mathematics
- Python Programming (Numpy, Pandas, MatPlotLib)
- R Programming
- Wolfram Mathematica
- Familiar with Windows, MacOS, and Linux operating systems

- LaTeX document preparation.
- Particle physics data analysis in ROOT
- Data Analysis (Collection, Cleaning, and Evaluation)

AWARDS AND ACHIEVEMENTS

- December 2017 – Awarded Walter Wesley Memorial Scholarship from Minnesota State University Moorhead Department of Physics and Astronomy for Outstanding Senior Project.