# 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

**CARL ZEISS INDUSTRIAL QUALITY SOLUTIONS**
*Applications Engineer, September 2021 - Present*
- Train users on ZEISS PiWeb software for industrial data analysis, including Statistical Process Control and Root Cause Analysis.
- Develop reports, including First Article Inspection and Production Part Approval Process, for customers based on their data from measurements runs from Coordinate Measuring Machines.
- Provide ZEISS customers with technical software support for the PiWeb and Calypso software suites.
- Manage projects related to software implementations, report development, and customer training
- Working closely with the sales team in the pre-sales process to provide software demonstrations and ensure that the needs of the customer are fully known by the sales team.

**PACE ANALYTICAL**
*Laboratory Analyst, January 2021- September 2021*
- Support 3M IATD in the development of tapes and adhesives used in industrial settings.
- Prepare and test samples of adhesives for various properties.
- Accurately enter data from tests to ensure engineers are working with data that represents the product.
- Enter data in a timely fashion to ensure data is up to date.
- Maintain a clean lab environment to ensure all samples and testing substrates are accounted for and appropriate for testing.
- Maintain a well documented lab notebook with test results, labels, and proper identifying information.

**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

- Microsoft Office Suite
- Customer Service
- Project Management
- Python Programming (Anaconda Distribution)
- R Programming
- SQL
- PiWeb and CALYPSO for Coordinate Metrology

- LaTeX document preparation.
- Pre-Sales for software

## Awards and Achievements

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