

Tyler Tiede

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WORK EXPERIENCE

MKS Instruments

January 2022 – November 2024

Software Engineer

Rochester, NY

- Designed and managed regression tests used to test various features on RF plasma control systems used by global semiconductor manufacturers.
- Designed and wrote all software for a test interface used to control I²C devices to communicate with RF generator control board. This includes writing Arduino firmware, Python libraries, regression interfaces, regression tests, and a GUI.
- Fixed and tracked down any bugs that appeared or have existed in regression framework.
- Created various scripts regarding data collection and parsing.
- Used software serial communication with oscilloscopes, switch matrixes, function generators, AC power switches, and Arduinos.

Corning Incorporated

August 2021 – December 2021

Optics Technician

Fairport, NY

- Aligned, adjusted, and tested opto-mechanical components and assemblies.
- Handled, inspected, and cleaned delicate optical components and assemblies.
- Read work orders, engineering drawings, and work instructions for product optimization.
- Coordinated with team members to ensure efficient flow through various stages of assembly and testing procedures.

SUNY Geneseo

June 2018 – March 2020

Assistant System Administrator

Geneseo, NY

- Implemented scheduling restrictions on building access for electronic locks across campus.
- Managed all card access for students across campus.
- Troubleshooted card access and electronic lock issues on-site and remotely.
- Assisted in programming web applications to be used across campus including a campus-wide emergency alert system and internal ticketing system.

Varsity Tutors

February 2020 – May 2020

Tutor

Online

- Tutored students in Mathematics and Physics.

SUNY Geneseo

February 2021 – May 2021

Undergraduate Lab Instructor

Geneseo, NY

- Taught in-person general physics labs to undergraduates.
- Held weekly office hours and gave online review sessions.
- Graded all students' work done in lab.

EDUCATION

SUNY Geneseo

August 2016 – May 2021

BS, Major in Applied Physics, Minor in Mathematics

Geneseo, NY

Relevant Coursework:

- Instrumentation & Interfacing: Projects using LabVIEW and hardware integration.
- Digital Electronics: Projects using Arduino and hardware integration.
- Programming: Introduction to Python.

Skills: Python, C/C++, Excel, Arduino, LabVIEW, Raspberry Pi, PHP, Laravel, MySQL

Personal Projects: Arduino/Raspberry Pi Weather Station, Twitter/Reddit bot