

Jonathan L.R. Helmin

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Education

University at Buffalo – The State University of New York

GPA: 3.92 | Graduation: May 2029

- BS Degree: Electrical Engineering | Dean's List

Alfred State College – Northland Workforce Training Center

GPA: 4.0 | Graduation: May 2025

- AOS Degree: Electrical Construction and Maintenance | Summa Cum Laude

Relevant Experience

Electrical Apprentice — Huber Electric

Buffalo, NY | Aug 2024 – March 2025

- Performed residential electrical service upgrades from 100A to 200A services
- Installed commercial branch circuits supplied by 277V/480V for lighting and equipment
- Interpreted and created blueprints, wiring diagrams, schematics, and floor plans to support new construction and renovation projects

Projects

Robot Arm — Independent Project

Summer 2026

- Prototyped multiple iterations of components using Elegoo CC 3D printer and slicing software
- Designed custom body consisting of five joints, three links, and end effector in Autodesk Fusion to be easily interchangeable and modular
- Designed power circuit with an incoming 24V supplying A4988 motor driver and 5V 15A Buck Converter

Solar powered residential system — Team Project

Fall 2024

- Instructed team of 4 in proper wiring procedures in accordance with NEC standards for both the residential service and PV system
- Installed eight 310W Heliene PV modules on ground mount supplying a DC system size of 2.48kW
- Utilized Enphase IQ8 microinverters on each PV module supplying an AC service of 240VAC split phase with disconnecting means rated for 20A
- Integrated IQ gateway monitoring system into microinverters enabling quick problem identification for maintenance

PLC process system with HMI — Team Project

Fall 2024

- Replicated assembly line process of a marshmallow factory using pneumatic components and sensors to resemble certain manufacturing steps
- Programmed Allen-Bradley PLCs with HMI using C-more and Do-More applications
- Collaborated with team to ensure accurate variables in replicating manufacturing processes

Work Experience

Customer Advisor II — Delta Sonic Car Wash

Buffalo NY | Jul 2020 – Aug 2024

- Clarified products and services that are offered according to the needs of guests
- Trained team of 5 in proper selling procedures and effective communication techniques
- Operation and maintenance of Carwash tunnel and equipment

Skills/Certifications

- Skills: Circuit Analysis, Motor Controls, Electrical Planning and Design, Electrical Installation, Electrical Troubleshooting, Arduino Microcontrollers, Autodesk Fusion, 3D Printing
- Certification: OSHA10