

# Connor Furlong

(847)-721-2223 | furlongc22@gmail.com | [linkedin.com/in/connor-furlong](https://www.linkedin.com/in/connor-furlong)

## EDUCATION

**B.S. Mechanical Engineering** | Milwaukee School of Engineering | Graduation: May 2026 | GPA: 3.93

## TECHNICAL SKILLS

- |                       |                              |                     |
|-----------------------|------------------------------|---------------------|
| ■ SOLIDWORKS          | ■ Ladder Logic (Studio 5000) | ■ MATLAB, Excel     |
| ■ Autodesk CAD        | ■ Metal and wood shop        | ■ Microsoft Office  |
| ■ Creo with Windchill | ■ 3D Print Prototypes        | ■ Pneumatic Systems |

## WORK EXPERIENCE

### Rockwell Automation

**Milwaukee, WI**

*Product Development Intern*

*May 2025-Present*

- Designed, modeled, and built transfer sections for high current lab testing allowing up to 100kA
- Iterated solutions to improve hole punching accuracy, saving 5 minutes per punch while decreasing defects
- Modeled in CREO with windchill to create custom bus bar for high current electrical systems
- Conducted thermal tests using heat transfer principles to determine thermocouple locations
- Monitored real time data to adjust current levels preventing overheating

### Rockwell Automation

**Milwaukee, WI**

*Automation Engineering Intern*

*May 2024-May 2025*

- Collaborated with automation team to rapidly repair broken robots and mechanical stations
- Updated ladder logic for PLC code utilizing Studio 500 to improve power data collection accuracy
- Implemented cloud based software, Factory Talk Energy Manager, to track air compressor power usage
- Analyzed data to identify ideal shutoff conditions saving \$4000 per year
- Presented technical tours of 100-C contactor line showcasing Rockwell equipment and software

### STV Inc.

**Chicago, IL**

*Rail Structure Intern*

*May 2023-May 2024*

- Utilized CAD programs to model culverts while adding wingwalls as needed based on surrounding terrain
- Created and annotated detailed production sheet sets for Palmetto Railways
- Determined pier placement for rail bridge following CSX bridge standards

## PROJECT EXPERIENCE

*Rocketry Club Leader (2023-Present)*

- Worked with a team to design and build a high powered rocket capable of various design targets including maximizing apogee, payload, or more specific requirements
- Worked within specific competition boundaries to create a 2-stage rocket capable of hitting max height of 10,000ft while carrying 150 golf balls, calculate thrust, acceleration, position, orientation

*Mechatronics Project Based Class (2023)*

- Designed, built, and programed a robotic car using sensors and 3D prints to identify and travel to objects

*Teaching Assistant (2021-2022)*

- Led a 3 person team in developing a new robotics class, creating presentations, drawings and models
- Taught students mechanical systems, software, automation and graded designs

## ORGANIZATIONAL INVOLVEMENT

**Treasurer** | MSOE High Powered Rocketry Club | *August 2023-Present* | 4 hrs/wk

**Tutor** | MSOE Raider for Academic Success | *August 2023 - January 2024* | 3 hrs/wk

**Member** | Tau Beta Pi Engineering Honor Society | *August 2024-Present* | 1 hrs/mth

**President** | MSOE Club Soccer | *Nov 2022-Present* | 12+ hrs/wk

**Mentor** | First Robotics Competition | *Jan 2023-Present* | 1 hrs/wk