

# Ryan Lynch

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## EDUCATION

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University of Wisconsin-Madison

Bachelor of Science, Computer Engineering | May 2024

Double Major: Computer Sciences

## Technical Skills

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**Programming:** Java, C, Assembly, HTML, Verilog, Python, JavaScript, SQL

**Programs:** Windows, Linux, Eclipse, MATLAB, Altrium, Visual Studio Code, Android Studio, GitHub, Jira

## Experience

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### Work

**Rockwell Automation, Milwaukee,**

Controls Engineer, May 2024 - Current

- Maintained automated testware and online test environments, ensuring high availability and reliable execution across multiple labs and personal test setups.
- Developed and upgraded L9 controller test beds, including hardware configuration, software integration, and automated test deployment.
- Tested and validated V38 Logix controller firmware, performing regression, functional, and compatibility testing.
- Triaged and analyzed test logs to determine root cause of failures, distinguishing between environment/setup issues and firmware defects.
- Built and configured test bed components using Python for automation and environment setup.
- Added new test stands to the test execution pool using SQL, including schema updates and test metadata integration.
- Utilized Rockwell Logix software for controller configuration, firmware loading, and test execution support.

**Acieta, Waukesha**

IT Specialist, November 2024 - May 2024

- Main tasks include onboarding/offboarding users, support to customers on hardware and software, solving network issues, following security procedures.
- Main projects were deployment of Epicor and domain and Microsoft consolidation.

### Projects

- **AI Applications (Python):** Built Minimax-based Teeko game AI and clothing-image classifier.
- **Android App (Capstone):** Developed Java app with OpenAI API integration; managed workflow in Jira.
- **Segway Device:** Programmed and tested embedded control logic in SystemVerilog.
- **Wisconsin Esports Conference:** Built database + front-end for 100+ player analytics.