

Lauren Semeraro

Sr. Hardware Development Engineer

Contact

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Education

B.S. Electrical Engineering
University of Illinois at Urbana–
Champaign
Grad: 2013

Certifications

**Cyber Security Specialist (TUV
Rheinland) ID-No 332/19**
Application area: Product
Development according to IEC
62443-4-1 and IEC 62443-4-2

**Functional Safety Engineer (TUV
Rheinland) ID-No 21065/20**
Application area: Hardware /
Software Design according to IEC
61508

Awards

2023 Rockwell Professional Women's
Council Mentor Champion

Experience

2019 - Present

Sr. Hardware Development Engineer – IO Products • Rockwell Automation

- Lead team of engineers in development of high speed digital interface board for new, smart, IO product for use in process applications
- Lead engineering effort to certify complex IO product to IEC 61010 standard.
- Worked with team to improve process and understanding of calculations for reliability and availability of Industrial Automation systems, including identification and understanding of relevant standards.

2015-2019

Hardware Development Engineer – Controllers and Communications Devices • Rockwell Automation

- Lead effort to certify the hardware of the 5069-L3500ERMS safety controller to multiple safety standards, including analysis, documentation, and communication with certifying agency
- Performed failure modes and effects analysis on complex circuits and identified and implemented required diagnostics in order to meet relevant performance metrics according to IEC 61508 and ISO 318449.
- Performed electromagnetic compatibility testing according IEC 61000-4 suite of standards

2019-2020

Hardware Co-op Coordinator • Rockwell Automation

- Lead team to acquire new Intern and Co-op talent, including attending career fairs, scheduling and performing interviews, and working with the management team to coordinate offers
- Built a framework of support for the co-ops and interns throughout their time at Rockwell to better support their short and long term career goals
- Solicited feedback from multiple stakeholders, including interns, managers, mentors, and team members on how to improve the co-op program. I then prioritized and implemented the items that would provide greatest improvement to the program, resulting in more positive feedback for the program overall.