

# JUSTIN RICHARDS

## ROBOTICS SOFTWARE ENGINEER

### CONTACT



Spokane, WA 99202

[JRichards91](#)

[Portfolio](#)

### SKILLS

#### Technical Skills:

- ROS, Python, C/C++
- AutoCAD, Fusion 360, LTspice
- Circuit Design, Soldering

#### Hardware & Systems:

- Hardware Prototyping
- Microcontroller Programming
- Electrical Troubleshooting

### RELEVANT COURSEWORK

- Robotic Operating Systems
- Embedded Systems Design
- Microcontroller Systems
- Hardware Descriptive Languages
- Intro to Deep Neural Networks
- Reinforcement Learning
- C Programming for Engineers
- Intro to Embedded Systems

### REFERENCES

Available upon request.



### PROFILE

Innovative electrical and robotics engineer with hands-on experience in embedded systems, ROS-based automation, and real-time control systems. Skilled in microcontroller programming, hardware prototyping, and sensor integration. Known for fast adaptation to emerging technologies and a methodical, solutions-focused engineering approach.



### EDUCATION

**BS Electrical & Computer Engineering** 01/2021 - 06/2025  
College of CSTEM | Eastern Washington University  
**GPA:** 3.3 / 4.0



### WORK EXPERIENCE

**ShredFast Inc.** 08/2024 - 01/2025  
Electrical Design Draftsman

- Designed and revised electrical schematics and diagrams using AutoCAD, ensuring compliance with industry standards and client specifications.
- Collaborated cross-functionally with production, QA, and sales teams to enhance workflows and support manufacturing.
- Delivered technical support and identified cost-saving improvements through innovative electrical drafting techniques.

**ShredFast Inc.** 12/2021 - 01/2025  
Electrical Engineer Technician

- Conducted testing and troubleshooting using multimeters to resolve electrical system issues and ensure reliability.
- Assisted in designing schematics, interpreting manuals, and training technicians on equipment handling and safety practices.
- Evaluated engineering proposals and contributed to product development from concept through launch with an emphasis on safety and feasibility.

**Maple Valley Lacrosse** 01/2011 - 04/2012  
Assistant Coach

- Developed practice plans, mentored athletes, and fostered a supportive, team-focused environment.
- Coordinated schedules and drills while assisting with game strategy, player evaluations, and skills development.
- Led training sessions emphasizing performance, technique, and alignment with broader team objectives.