

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.