

ROBERT MURCH

Software Engineer

CONTACT

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CERTIFICATIONS

PSM II — Scrum.org — 93%

PSM I — Scrum.org — 97%

PSPO I — Scrum.org — 96%

EDUCATION

B.S. Computer Engineering

Montana State University

Bozeman, 2018

TECH STACK

- C++
- Qt/QML
- Python
- Shell Scripting
- Embedded Linux
- CAN bus
- Control Systems
- Digital Logic

TOOLS

- Git / SVN
- Jenkins
- Bugzilla
- Review Board
- LeanKit

AI TOOLING

- Claude Code
- Codex CLI
- Gemini CLI

SUMMARY

Software engineer with eight years of experience building embedded Linux guidance and control systems in C++, Qt/QML, and Python. Background includes system-level debugging within large production codebases and integrating AI-assisted tooling into embedded engineering workflows.

PROFESSIONAL EXPERIENCE

TeeJet Technologies

May 2018 – March 2026

Software Developer I/II/III

Worked on a large embedded Linux guidance and control platform used in precision agriculture systems, contributing across development, debugging, system analysis, and technical modeling efforts. Returned for a final year as a remote contractor via Upwork to support production release efforts.

- Developed agricultural guidance and control systems using C++, QML, and Python
- Investigated complex system-level defects requiring analysis across tightly coupled embedded subsystems
- Created and interpreted UML diagrams to model and communicate complex system behavior and architecture
- Wrote technical documentation and worked across QA, stakeholder, and development workflows in an Agile environment
- Contributed to long-lived production systems involving guidance logic, rendering behavior, and embedded workflow analysis
- Integrated terminal-based AI tooling into engineering workflows to accelerate legacy system analysis and debugging