Caleb Morrison

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My Key Qualifications

- **AutoCAD Electrical and Autodesk Vault** used daily at ProMach to create and revise schematics, panel layouts, wiring diagrams, and BOMs.
- Electrical engineer at a packaging machinery manufacturer since June 2025, with a BS in **Electrical Engineering** from Milwaukee School of Engineering.
- Component selection for **PLCs, HMIs, VFDs, relays, and circuit protection** on a conveyor control panel refresh, completed with 11 approved part substitutions and no late BOM changes.
- Ran **continuity checks, I/O verification, and startup support** on production units, resolving 18 wiring and device issues before customer shipment.
- Cut drawing-related assembly questions from 6 to 2 per build by revising drawings and **BOMs for 14 machine options**.
- Allen-Bradley CompactLogix, FactoryTalk View, and VFD hands-on through a capstone packaging cell that reached **96% sensor-detection accuracy** across 500 test cycles.
- UL 508A and NEC fundamentals applied on a campus panel wiring audit that found **23 discrepancies across 8 panels**.

Experience

Electrical Engineer I — **ProMach**, packaging machinery manufacturer serving food, beverage, and industrial customers

Jun 2025 – Present · 1 yr 5 mos

- Revised schematics, panel layouts, and bills of materials for 14 machine options in AutoCAD Electrical and Autodesk Vault, cutting drawing-related assembly questions from 6 per build to 2.
- Supported component selection for PLC, HMI, VFD, relay, and circuit protection updates on a conveyor control panel refresh, completing the release with 11 approved part substitutions and no late BOM changes after pilot build.
- Ran continuity checks, I/O verification, and startup support on new production units, logging and resolving 18 wiring and device issues before customer shipment using multimeters, schematic review, and test documentation.

Education

- **Milwaukee School of Engineering** — Bachelor of Science in Electrical Engineering · 2021 – 2025 · Relevant coursework: Industrial Controls, Power Systems, Electric Machines, Control Systems, Instrumentation and Measurements

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Projects

- **Automated Packaging Cell Capstone**
  Built a bench-scale conveyor and sorting cell for a campus manufacturing lab using PLC control, HMI screens, sensors, and motor control hardware to simulate startup and fault handling. Reached 96% sensor-detection accuracy across 500 test cycles.
  Tech: Allen-Bradley CompactLogix, FactoryTalk View, AutoCAD Electrical, VFDs
- **Panel Wiring Audit for Campus Facilities**
  Reviewed feeder and control-panel documentation for a campus facilities group, redlined drawing discrepancies, and verified field wiring against schematics and NEC concepts. Identified 23 documentation and labeling discrepancies across 8 panels.
  Tech: AutoCAD, Microsoft Excel, Multimeters, NEC

Skills

- **Design & Documentation Tools:** AutoCAD Electrical, Autodesk Vault, Microsoft Excel
- **Industrial Controls:** Allen-Bradley CompactLogix, HMIs, VFDs, Control Panel Design, Industrial Controls
- **Testing & Standards:** Electrical Testing & Troubleshooting, Multimeters, UL 508A / NEC Fundamentals