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## John Aultman, P.E.

## Sr. Engineer / Co-Owner

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### EDUCATION

- Bachelor of Science in Electrical Engineering, UND College of Engineering & Mines, 2009
- Associate of Science in Engineering, Itasca Community College, 2007

### PROFESSIONAL COURSES

- ETAP 115 Power System Analysis Workshop
- Principles of Substation Design and Construction – University of Wisconsin-Madison

### EXPERIENCE

Mr. Aultman's experience ranges across a wide variety of industries including Food Industry, Manufactured Goods, Metalworking, Mining, Petroleum Refinery, Oil and Gas Distribution, Pulp and Paper, Textile, Waste Water, and Water Industry.

His experience in these industries involves extensive power system analysis, including short circuit calculations and arc flash analysis for a wide range of power systems, with experience providing engineered mitigation and remediation solutions for arc flash and other electrical hazards found at industrial plants.

### REPRESENTATIVE EXPERIENCE

#### SENIOR ENGINEER, SAGINAW POWER & AUTOMATION

- Work includes Consulting, Engineering, Design, and Building of electrical distribution power systems, automation, and control solutions for a variety of industries.
- Provide Consulting Engineering Services to help provide an electrical asset and power system management solution for a customer with a system of 170+ substations.
- Perform in-depth and hands-on Arc Flash Hazard Awareness and Electrical Hazard Safety Training to industry technicians, engineers, and safety representatives in a variety of industrial environments.
- Review and update electrical equipment, design, construction and maintenance standards for a variety of customers to help insure the quality of products they receive as well as reliability of their existing equipment.

#### SR. APPLICATION ENGINEER , ROCKWELL AUTOMATION-IPS

- Assisting in industrial power and control system project proposals and time estimates for customers across the globe.
- Provide product applications support for industry standard as well as custom designs.
- Engineering support to sales engineers and sales managers to consistently meet and exceed goals or objectives.
- Generate quotations and project estimates as well as project and engineering management for a wide variety of project types including Disaster Recovery for hurricane relief at biodiesel terminals.

#### ELECTRICAL/FIELD SERVICE ENGINEER, ROCKWELL AUTOMATION-IPS

- Programming and commissioning of SEL, GE, Allen-Bradley, and ABB protection relays.
- LV and MV power electronic maintenance, rebuild, and retrofit to fit customer needs.
- Arc Flash Awareness and Safety Training to a variety of industrial plant personal across North and South America.
- Perform Power Study using SKM Power Tools, EasyPower, and ETAP Electrical Engineering Software for device evaluation, coordination, short-circuit analysis, load flow, arc flash calculations, and arc flash remediation solutions.
- Disaster Recovery for flood at water heater plant and for fire at paper product plant.

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**ELECTRICAL ENGINEER, JDI CONTRACTS, INC**

- Engineer for Checkout Start-Up team on \$250MM coal drying project at Great River Energy Coal Creek Station, ND.
- Management of database that included Cable Schedule, Equipment Attributes, Schematic, and P&IDs.
- Work as interface between owner and contractors to manage and direct completion of punch list items.
- Produced schematic diagram drawings using AutoCAD Electrical.

**ELECTRICAL ENGINEER INTERN, ROCKWELL AUTOMATION IPS**

- Engineer and retro-fit trip unit systems for low, medium, and high voltage protection.
- Diagnostic oil sampling including DGA, Medium voltage switch gear maintenance and repair.
- PLC panel built for automated systems.

**ELECTRICAL ENGINEER INTERN, DMR ELECTRONICS / DETROIT DIESEL**

- Design and draw schematics and PCBs for mining and automotive industry using Protel and Alitum software involving layout and positioning of electrical hardware.
- Spreadsheet work in Excel to manage project parts lists and BOM as well as finding, specking, and ordering components required for newly designed electrical equipment.
- Auto-CAD drawings and 3-D modeling of electrical equipment and component housings.

**ELECTRICAL SHOP TECHNICIAN, DISCRETE ELECTRONICS**

- Small electronic production, development, and repair including PCB etching and soldering.
- Discrete surveillance equipment installation.
- Machining metals using milling machine, laser engraver, metal break, metal lathe, and TIG welder.