

ROWAN ATKINSON

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EXPERIENCE

Power Systems Engineer II, Duke Energy, Notre Dame, IN May 2023 - Present

- Help design and update protection systems for 138 kV and 345 kV substations as part of regional grid-upgrade projects.
- Work with protection engineers, SCADA teams, and field crews to troubleshoot equipment issues and ensure designs meet NERC and IEEE standards.
- Create relay settings, logic diagrams, and one-line drawings in ETAP and SKM to ensure safe and reliable operation under fault conditions.
- Prepare design packages, calculations, and wiring diagrams for review by senior engineers and utility partners.
- Support field commissioning by checking relay settings, reviewing test reports, and assisting technicians with technical questions.

Power Systems Engineer I, Cummins Inc., Notre Dame, IN Jun 2020 - May 2023

- Designed electrical distribution systems for diesel and natural-gas generator installations (500 kW to 2 MW).
- Produced one-line diagrams, three-line diagrams, and panel layouts using AutoCAD Electrical.
- Performed load-flow and short-circuit studies in ETAP to optimize conductor sizing and equipment ratings, reducing project cost by about 15 percent.
- Coordinated with mechanical, controls, and manufacturing teams to ensure generator systems met UL 2200, NFPA 110, and NEC emergency-power requirements.
- Trained new engineers on load studies, arc-flash analysis, protective device coordination, and safety practices.

Electrical Engineer I, General Electric Aviation, Notre Dame, IN May 2018 - Jun 2020

- Supported wire-harness design for GE90 and GEnx jet-engine electrical systems, improving layout consistency and reducing manufacturing time.
- Helped diagnose electrical and EMI issues using spectrum analyzers and oscilloscopes.
- Reviewed electrical drawings for compliance with FAA and DO-160 rules.
- Resolved drawing and documentation issues under tight deadlines to keep production on schedule.
- Updated electrical files and revisions in PLM systems to maintain accurate engineering records.

Electrical Engineering Intern, General Electric Aviation, Notre Dame, IN May 2017 - May 2018

- Assisted with layout checks and wiring updates for control panels and electrical assemblies.
- Updated CAD drawings after design changes and field markups.
- Helped perform basic factory tests on protection and control panels and recorded test results.
- Organized engineering files and documentation to keep project information current and easy for the team to access.

EDUCATION

BSEE, University of Notre Dame, College of Engineering

May 2018

SKILLS

- **Stack:** MATLAB/Simulink, Python, C/C++, Arduino Programming, Embedded C, LabVIEW, PSCAD
- **Design:** AutoCAD, Revit, Altium Designer, LTspice, PSpice, Multisim, KiCad, TINA-TI