CURRICULUM VITAE

Paul Bennett, B.Eng.

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EXPERT SUMMARY

Mr. Paul Bennett is an Associate with the Fire & Electrical team at 30 Forensic Engineering. He holds a Bachelor's Degree in Electrical Engineering from Lancaster University (Lancaster, UK) and has more than 15 years of experience supporting electrical engineering operations throughout various industrial sites, including manufacturing, power generation, and nuclear. Paul has comprehensive knowledge of electrical systems, having overseen large-scale projects from end-to-end, including scoping, design, construction, commissioning, and maintenance. His experience extends to root cause failure analysis of electrical failures and fires.

SPECIALIZED PROFESSIONAL COMPETENCIES

- Root Cause Failure Analysis
- HV/LV Switchgear and 132kV Power Distribution
- SCADA and DCS Systems (Emerson, Siemens, Rockwell)
- PLC Systems (Siemens S7, Valmet, Allen-Bradley, Mitsubishi)
- Plant Operating Systems (Honeywell DCS, Valmet DNA)
- Functional Safety and SIF Testing
- Cyber Security for Industrial Control Systems
- Instrumentation Field Device Calibration
- Commissioning and FAT Testing
- End-to-end Project Delivery (Scoping, Design, Construction, and Commissioning)
- Process Hazard and Risk Analysis
- Routine and Reactive Maintenance
- Closed Loop Instrumentation Control Systems

ACADEMIC BACKGROUND

Bachelor's Degree in Electrical Engineering, Lancaster University, Lancaster, UK, 2016

Higher National Diploma in Electrical Engineering, Lakes College, Lillyhall, Cumbria, UK, 2014

Higher National Certificate in Electrical Engineering, Lakes College, Lillyhall, Cumbria, UK, 2013

ONC in Electrical Engineering, Lakes College, Lillyhall, Cumbria, UK, 2011

ADDITIONAL COURSES

Functional Safety Engineer TUV Rhineland

Emerson Ovation OV200 Building & /maintaining Ovation Control

Emerson Ovation OV100 Data Acquisition Using Ovation

IOSH managing safely

HV Authorised Person S4

CompEx ExF Foundation Plus

PRINCE2 Foundation

PRINCE2 Practitioner

Siemens TIA portal serv1

Valmet DNA engineering level 1

Honeywell HMI graphic building workshop

SKF Planning and Scheduling

Honeywell OPC overview

Quantum variable speed drive training

TUC Safety rep level 2

PROFESSIONAL EXPERIENCE

30 Forensic Engineering

Associate, Fire & Electrical
July 2026 – Present, Toronto, Ontario

- Forensic investigation and reporting on failures involving:
  - Industrial electrical systems, including switchgear, power distribution, and electrical instrumentation
  - Gas and steam turbines
  - Monitoring and telemetry systems
  - Underground cables and infrastructure
  - Domestic and industrial electrical equipment and appliances
  - LV lighting and power systems
  - DCS and SCADA control system hardware

Jacobs (Nuclear)

Project Engineer
September 2024 – May 2025, Sellafield, UK

- Acted as lead facilitator for multiple projects on highly active nuclear facilities and seeing them through to completion
- Kept schedules updated and key stakeholders informed of any changes to the work plan
- Received project requests and turned concepts into functioning solutions.
- Oversaw all stages; including scoping and planning; design; commercial; construction; and commissioning and handover
- Worked alongside the design team to act as the SME and provide technical support and guidance on electrical equipment
- Managed budgets to ensure operations adhered to pre-determined targets set by the company
- Managed contractors and conflict resolution between departments
- Gained AS clearance due to working nature of the work within a nuclear facility

PX Ltd. Fellside CHP Plant

Electrical, Control and Instrumentation Engineer
August 2022 – September 2024, Seascale, UK

- Acted as the site wide authority for all electrical and control systems, from HV/LV switchgear, Power Distribution(132Kv), Electrical Instrumentation, SCADA and DCS systems (Emerson, Siemens and Rockwell)
- Ensured the site met the steam demand, from either the GE 6000 frame Gas Turbine, Steam Turbine, Auxiliary boiler or Steam Generation Boiler Park
- Planned work around site wide outages, organized work alongside operations, reviewed and submitted RAMS, set contractors to work, and signed off on jobs
- Took ownership of EC&I projects on site, which included:
  - Completing an upgrade of site-wide DCS and plant operating system;
  - Installing and commissioning a site-wide gas detection system;
  - Installing and setting up a 4G gas telemetry system;
  - Replacing the earth bonding interlock equipment in diesel offload area; and
  - Replacing cable sealing ends on 132Kv connectors
- Acted as the site responsible person for functional safety, including all SIF testing and associated equipment, and bringing a renewed commitment to cyber security
- Assisted technicians on a range of breakdowns or urgent plant issues
- Acted as the lead engineer on root cause analysis investigations (fishbone analysis, 5 whys) to determine the probable cause of major equipment failures
- Carried out fire investigation on issues related to VFD explosions, electrical panel fires, and motor starter panel fires

- Adhered to strict health and safety regulations to maintain a high level of safety across all departments at work

Doosan Babcock

Commissioning Engineer
September 2021 – August 2022, Whitehaven, UK

- Worked as part of the commissioning team undertaking large engineering projects on a nuclear site
- Reviewed the initial designs for the electrical and instrumentation systems, influencing the selection of control systems
- Reviewed and developed various commissioning documents, including commissioning test documents, work level instructions, RAMS, service level agreements, maintenance instructions, and FAT test documents
- Visited vendor sites to carry out FAT testing/witnessing, followed by on site testing and commissioning
- Visited other nuclear sites to carry out fact-finding exercises about other major projects and implemented learnings from site visits
- Worked on all electrical plant equipment, including the power distribution systems
- Serviced essential building equipment, including overhead cranes and lifts, as well individual plant equipment, such as motors, pumps and VSDs
- Carried out loop testing of the control system (Profibus DP and PA equipment)

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Automation Engineer
November 2019 – September 2021, Siddick, UK

- Gained hands-on experience with different PLC systems throughout site, including Siemens S7, Valmet, Allen-Bradley and Mitsubishi
- Worked on the Honeywell DCS and Valmet DNA plan operating systems
- Improved the maintenance operations of various pieces of equipment from an automation point of view, including health checks of the systems and reducing downtime, centring around preventative maintenance
- Worked with both Siemens and ABB drives, from commissioning to reactive maintenance work, carrying out parameter checks and making appropriate changes when required
- Worked on Siemens Simocode units, including updating the aging Simocode DP modules to new Simocode Pro units' site wide
- Worked alongside the projects department to offer electrical engineering expertise, especially on root cause analysis (fishbone analysis, 5 whys)
- Created and maintained comprehensive engineering roadmaps of the different automation systems to capture any upcoming redundancy or servicing issues
- Worked on multiple service level agreements with subject matter experts to ensure comprehensive coverage in the event of an unforeseen equipment failure

Engineering Coordinator
April 2015 – November 2019, Siddick, UK

- Delivered weekly detailed work plans and schedules to the maintenance team
- Analyzed work to identify priorities and reduce inefficiency of misplaced resources
- Met with different teams within the mill and communicated ideas to help improve reliability and efficiency
- Owned projects carried out within the engineering department, ensuring targets were met and work was carried out safely
- Produced and updated risk assessments for engineering activities and reduced the risk of injury to the maintenance team
- Networked with contractors and suppliers to build good working relationships
- Used CMMS software to log any changes to maintenance tasks; updated existing work instructions; added new instructions; and kept track of spare parts and inventory

Electrical Maintenance Technician
September 2010 – April 2015, Siddick, UK

- Worked within a small team to carry out planned and reactive maintenance, from periodic routines to breakdowns
- Gained experience on a wide range of electrical equipment such as LV, HV, motors, instrumentation equipment, and automation systems
- Carried out calibration of field instrumentation devices, such as pressure transmitters, temperature transmitters, PH probes, flow valves, and viscosity meters
- Installed cable enclosures and ensured all cables were glanded and secured correctly
- Fixed new cable trays, conduits, and trunking in industrial environments
- Developed professional relationships with other areas of the Mill, such as with operators, labs, and safety reps
- Ensured all work was done in the safest possible manner
- Led the maintenance team when required.

Electrical Engineering Apprentice
September 2009 – September 2010, Siddick, UK

- Gained knowledge of electrical engineering by shadowing senior technicians to learn the trade and improve knowledge of the card making process
- Trained in hand skills and communication skills
- Learned a range of maintenance activities and fault-finding techniques
- Continued education through local college