

SEAN G. BROWN

Electrical Engineer EIT

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[LinkedIn](#)

Sanford, NC

PROFESSIONAL EXPERIENCE

Sibylline, Inc

London, UK (Remote)

Technical Developer

Jun 2020 – Present

- Performed day-to-day Tier II IT and Helpdesk tasks such as resolving hardware and software issues
- Constructed, managed, and maintained entire front-end online presence; assisting with branding and image
- Protected company from phishing attacks and other security threats and ensured the company is secure
- Educated employees on personal and professional security
- Designed and built the admin dashboard UIX of several internal utilities deployed to improve efficiency
- Supported development of back-end technologies
- Managed Azure, SharePoint, Teams, and other services within the Microsoft Office 365 and Azure ecosystem
- Built Power BI, Power Apps, and Power Automate applications within the Microsoft Power Platform

Industrial TurnAround Corporation (ITAC)

Raleigh, NC

Electrical Engineering Design Associate II

Mar 2018 – May 2020

- Requesting information from clients (RFIs) and made site visits to gather necessary data for design processes
- Designed power cabling and routing as needed for motors, pumps, conveyors, compressors, fans, heaters, etc.
- Sized cables, conduits, trays appropriately in compliance with NEC guidelines
- Utilized SKM Powertools for calculating Arc Flash
- Coordinated with other disciplines; integrating structural Gas into power plans and I & C controls signals into cable schedules and block diagrams
- Produced deliverables for clients; created and revised AutoCAD drawings, coordinated with other disciplines by integrating structural GAs into power plans and I & C controls signals into cable schedules and block diagrams
- Met the unique needs of a wide variety of clients, involving providing engineered designs for conveyors, motors, pumps, cable raceway, conduit, power feeder and branch circuits, VFDs, panels, junction boxes, etc.
- Delivered one-line power diagrams for Allen-Bradley (ABB) and Rockwell MCCs, Switchgear and Switchboards and other feeder devices, schematics, wiring diagrams, cable schedules, scope of work and design specifications, lighting calculations, power / lighting / grounding plan drawings, and all related calculation documentation

Industrial Tests, Inc.

Rocklin, CA

Field Engineer – 2 month contract

Jun 2017 – Aug 2017

- Performed NETA 70E A & M testing on switchyard electrical equipment and control room equipment, primarily but not limited to: insulation resistance testing, high potential testing, continuity testing, and mechanical inspection of terminations and enclosure.
- Diagnosed failed tests for points of failure and making repairs or recommendations.

Aerotek

Sacramento, CA

Hydropower EIT Electrical Designer – 18 month contract with HDR, Inc.

Jan 2016 – Jun 2017

Performed design support for the modernization and restoration of a 120MW hydro pumping-generating power plant:

- Applied NEC standards for cable, conduit, cable tray, circuit breaker, motor, and transformer sizing
- Optimized the feeder and branch circuit cabling for all power and control devices per power supply needs
- Produced an extensive cable-conduit schedule by accurately interpreting I/O signals from existing schematics
- Revised existing drawings and created new schematics, ready-to-build wiring diagrams and panel drawings
- Contributed to project planning and budgeting and demonstrated leadership capabilities where appropriate
- Assisted in modernizing the protective relaying schemes for both the low and high voltage sides of the plant
- Created time-saving excel-based tools for applying NEC Code to over 2,000 cables, conduits, and cable trays
- Trained for designing Switchgear, MCC, and PLC schematics

KEY SKILLS

ELECTRICAL DESIGN

- NEC Code Compliance
- One-Line & Three-Line Diagrams
- Schematic & Wiring Diagrams
- Protective Relaying
- SKM Power Tools
- Controls and Instrumentation
- Hydropower Design – Generator, Pump, Auxiliaries
- Motor Control Centers, Starters, VFDs
- MCCs, Remote I/O and PLC Controls
- AutoCAD & AutoCAD Electrical
- Revit

SOFTWARE

- HTML5, CSS3, PHP, Javascript, JQuery, Codeigniter
- MySQL, Apache, Azure, AWS EC2
- Wordpress development
- Sharepoint, Teams, Power Apps, Power BI
- Visual Studio C#, C++, C Programming
- GIT, SVN Project Management
- Adobe Acrobat & Bluebeam Revu
- Microsoft Office 365
- Photography, Lightroom, Canva, Litmus, Mailchimp
- Adobe Creative Suite
- Google Analytics

CERTIFICATIONS

Engineer-in-Training (EIT) in California

CPR/First Aid

OSHA-10 Hour Certified

HAM Radio Technician

EDUCATION

B.S. Electrical Engineering (Majored in Power) | May 2015

A.S. Sciences (Physics & Engineering) | June 2012

A.S. Arts & Sciences | June 2012

Washington State University, Pullman, WA

Bellevue College, Bellevue, WA

Bellevue College, Bellevue, WA

ACHIEVEMENTS

Eagle Scout (BSA)