

STEVE MACCALLUM, DIPL. ELECTRICAL TECHNOLOGIST C.E.T
SENIOR ELECTRICAL DESIGNER

Education

Electrical Technologist - Power Option, BCIT, Burnaby, BC

Electrical Technologist - Instrumentation Option, BCIT, Burnaby, BC

Memberships

Certified Electrical Technologist of Alberta

Qualifications

10 years design and drafting experience in the electrical field.

Experience coordinating contractors and assisting with commissioning and start-up.

Extensive knowledge of AutoCAD and Microstation and standard Windows based programs.

Successful involvement with numerous large and small industrial projects.

Experience

Senior Electrical Designer - John R. Hamalainen Engineering Ltd.

Electrical Designer - Colt Engineering Corporation, Edmonton, Alberta

- Designed a 3x3000HP pump station for Enbridges new pipeline 3 expansion from Edmonton to eastern US/Canada.

- Part of a large team of designers/engineers/drafters working in conjunction on this project

Electrical & Instrumentation Technologist - Techna-West Engineering Ltd.

- Worked on location in Union Bridge, Maryland on a \$300 million upgrade to Lehigh Portland Cement facility. Operated in conjunction with plant engineers, PLC programmers, contractors and electrical superintendents. Primarily responsible for the material handling area including the circular stacker/reclaimer, longitudinal stacker/reclaimer, and approx. one kilometer of conveying systems. Daily work included progress meetings, coordinating and assisting contractors, tracking progress, reviewing design documents and drawings submitted by engineering companies, troubleshooting problems for instrument & electrical engineers and PLC programmers, designing electrical systems, maintaining the PLC IO signal list, representing engineering staff and superintendent, performing drafting duties.

- This project received the Consulting Engineers of Alberta 2002 showcase Award of Excellence (international).

Electrical & Instrumentation Designer / Drafter - Independent Contractor

- Electrical Drafting for Blair Engineering (Nanaimo, BC): "Diamond" Retirement Home and NDSS Expansion

- Projects with Duncan Industrial Engineering Incorporated (Nanaimo, BC): Traced and documented devices and cables in main control room for complete control room upgrade at CXY Chemicals; Sized and designed layout for uninterruptible power supplies for Universal Dynamics Ltd. in Prince George, BC; Many other small electrical / drafting projects.

Electrical & Instrumentation Designer / Drafter - H.A. Simons, Nanaimo, BC

- Provided drafting for mechanical, electrical and piping projects and some estimating.

Electrical & Instrumentation Designer / Technologist - VECO Engineering, Kitimat, BC

- Primarily gathered site electrical and instrumentation information for engineers. Projects with Eurocan Pulp & Paper Ltd., Kitimat, BC - Gas & Oil Igniter Conversion for Recovery Boiler : Identified existing controls and instrumentation; assisted with circuit design and drafting of hardwire controls for PLC interface, UPS Backup Systems for New Plant F/O Network; assembled construction package for installation of UPS backup systems for all new network nodes located plant-wide; detailed the installation of remote power feeders for reliable power.

Electrical Technologist - Universal Dynamics, Terrace, BC

- Projects with Alcan Smelters & Chemicals, Ltd. Kitimat, BC. Point Break Feeder Project: performed construction and safety supervision, design and drafting of complete electrical system to control alumina dust intake for 300 aluminum smelting pots, designed electrical system with attention to equipment sizing and cable tray routing, identified and removed old electrical equipment, scheduled and coordinated contractors' schedules, specified and purchased electrical distribution equipment. Highway Lighting Upgrade: purchased equipment and provided contractor construction/safety supervision, calculated Isofootcandle values to determine spacing, height and power of fixtures. Coke Calciner Upgrade: specified 20 hp motors and VFD's for rotating kin volatile fans, designed control circuits for PLC/MMI interface and programmed VFDs, UPS Backup installations for Critical Circuits. Flying Cab Crane Rebuilds: assisted in assembling construction package and purchased electrical distribution equipment for Potline 8B West "Flying Cab" crane, performed site investigations to determine equipment spacing, attended design meetings to determine needs of all mill departments.

Electrical & Instrumentation Drafter - Western Pulp, Port Alice, BC

- Worked in engineering department, drafting modifications to electrical schematics as well as some electrical design.