



SANDER GEOPHYSICS

Position Title:	Electronics Engineer
Department:	Engineering
Reports to:	Engineering Manager
Location:	Ottawa office

Responsibilities

- Read and create electrical schematics, and interface control documents using CAD based software;
- Prepare cost estimates for design work;
- Undertake QA/QC of engineering products and design packages for quality and compliance with code;
- Design and develop instrumentation for airborne geophysical surveying;
- Implement software components for instrument operation and data collection;
- Work with the geophysical research and development department from initial instrument design through prototype, integration and initial deployment;
- Develop system operational documentation for use by company field crews;
- Troubleshoot existing electrical components and systems;
- Perform assigned tasks to a high standard of quality;
- Understand, comply with, and promote all company safety precautions and policies, including reporting hazards and incidents encountered during daily operations;
- Attend and complete training courses and/or company examinations, as required;
- Maintain a high level of technical and operational knowledge through direct engagement with colleagues, supervisors, and personal development;
- Maintain project schedules and design goals; and
- Perform and complete other duties as assigned.

One or More of the Following Experiences is a Plus

- Embedded software development (Yocto);
- Device driver development;
- Distributed/real-time systems (DDS, Robot Operating System);
- TCP/IP networking;
- PCB design in Altium Designer;
- Demonstrated experience in designing, integrating, and troubleshooting systems aboard an aircraft including, the ability to use test equipment needed to determine that systems are behaving normally; and
- Experience preparing and performing electromagnetic compatibility and interference source victim testing of aircraft systems.

Required Qualifications

- Postsecondary degree in Electrical Engineering, Engineering Physics, Software Engineering, Aerospace Systems Engineering or a relevant discipline;
- Eligibility for designation as a Professional Engineer (PEO – Professional Engineers Ontario) is an asset;
- Experience with designing, drawing, and analyzing analog and digital circuits;
- Experience or proficiency in any of:
 - Hardware and analog design: Altium Designer, SPICE simulation
 - FPGA/HDL Development: Verilog, VHDL, Tcl
 - Microcontroller development: C, C++
 - Data analysis: Python/Numpy, Matlab
- Excellent interpersonal communication skills;
- Ability to communicate in multiple languages is an asset;
- Excellent report writing skills; and
- Ability to multitask in a fast-paced environment.

Benefits

SGL is committed to promoting employee wellness and successful work-life balance. Employee benefits include (but are not limited to):

- Comprehensive benefits coverage including health, dental, vision, and paramedical;
- Life insurance;
- Employee & Family Assistance Program;
- Paid vacation, personal leave, and medical leave;
- On-site gym; and
- On-site parking.

If you are interested or know a qualified person who would be interested, please forward their resume to careers@sgl.com. Please include the position title in the subject line of your email.

Sander Geophysics is an equal opportunity employer. Accommodations are available for applicants with disabilities throughout the recruitment process. If you require accommodation, contact Human Resources at careers@sgl.com prior to your interview. Please note that only applicants selected for an interview will be contacted. We thank all applicants for their interest.