



Jonathan  
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ELECTRICAL ENGINEER



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## ABOUT ME

*Working in companies from Remotely Operated Vehicles, VoIP Telecom, and Train Control Systems, I have over 20 years of diversified experience.*

Family man with a passion for all things Tech and mechanical. Love of old vehicles, playing guitar, drawing, and getting outdoors with the dogs. Well rounded experience from project management, firmware construction, Engineering Design, High Power Control, ROV design, and Telemetry Design.

## SKILLS

- Analog and Digital Design
- Schematic Capture and PCB Layout
- Board production, testing, integration
- User interface code
- ROV Telemetry scope definition
- Component sourcing for final product
- Altium Designer, Kicad, AutoCAD
- Python Coding Raspberry Pi Projects
- Python Coding Apple IOS Projects
- Software Version Control: Git/Bitbucket
- Artistic Panel Design; Logo Design

## EDUCATION

BA Science in Electrical Engineering

University of Victoria

2000

Diploma Electronics Engineering

Technology

Camosun College

1998

## EXPERIENCE

Electrical Engineer/ ROV Pilot / Shift Supervisor

*Canadian Scientific Submersible Facility/ Victoria BC/ 2010 – Present*

Define, design, and maintain a World Class ROV specializing in subsea science.

- Design, test, and integrate custom PCB boards throughout the system
- Pilot, Navigate, and maintain, electrical, mechanical, and hydraulic systems during deployments of up to 6 weeks offshore
- Supervise shift work of offshore team and co-ordinate ships' crew.
- Update, Maintain, and document ROPOS ROV electrical systems
- Design and implement electrical control systems for ROV operations, control, Navigation, and Telemetry

Electrical Engineer/ Firmware Engineer/ Team Lead

*Quester Tangent / Victoria BC / 2004 – 2010*

Produce test suites, Design PCBs, for the Public Rail Industry.

- Project management of a small team in the execution of a Monitoring and Diagnostic system for commuter-rail transit industry.
- Firmware programming of a real-time COTS software programs in QNX
- Digital and analog board design: power, RF, and digital control.

Electrical Engineer / Firmware Engineer

*Lucent Technologies / Hyannis MA/ 2000 – 2004*

Designing and coding VoIP boards for Telecommunications

- Hardware design of a VoIP and VoATM PCB modules, and Gigabit Ethernet Cards
- Firmware authoring, build and debug using C in a VxWorks and PSOS RTOS