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Kevin Corbett

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Canadian Coast Guard

Attn: ITS Directorate, Electronics and Informatics

25 Huron St, Victoria, BC V8V 4V9

To the Canadian Coast Guard Electronics and Informatics Branch,

I discovered your career opportunity via Camosun College, regarding a position for an Electronics Technologist Co-op that you have available. Based on the job description, it appears that your organization is keen on hiring efficient people with significant experience in radio electronics equipment and heavy-duty installation of said equipment. I am reaching out as I believe I would be a good fit for this position, since I have become very confident with electronics lab equipment and power tools over the years from both my work experience as well as my education, and I find great enjoyment and satisfaction in learning new skills. I am very comfortable working in any environment, from a team-heavy collaborative setting, to a completely independent one.



I am a graduate of the Electronics Engineering Technologist Diploma program from Okanagan College, and I have been employed since June 2021 as an Electronics Technician in Victoria BC. In this role I am responsible for designing and assembling AC power distribution components and control circuitry, creating and maintaining production integration documentation, as well as management and procurement of electrical-related resources. These responsibilities directly correlate with the skills you are searching for in this position. In my diploma program I focused on both AC and DC circuit analysis, along with both analog and digital communication systems and protocols. These skills are especially relevant due to the nature of the position being related to installation and maintenance of RF antennas and other radio components. I also have a significant understanding of circuit and PCB design, embedded systems and microcontroller programming, as well as Industrial Internet of Things (IIoT) system design, PLC programming, and HMI design.



I have always been a very detail-oriented person, and I take great pride in my work being as precise and efficient as possible, and I would love the opportunity to learn more and grow my skill set in this position. I believe I would be a strong asset to your team and am happy to meet with you at your convenience to discuss how I can contribute to the Canadian Coast Guard.



Thank you for your consideration,

-Kevin Corbett

KEVIN CORBETT

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SKILLS & COMPETENCIES:

- Design and assembly of AC power distribution systems
- Networking/interfaces, analog and digital communications
- General electrical/mechanical diagnostics and repair
- Analog and digital circuit analysis
- Soldering and assembly of both THT and SMT components, including microsoldering
- PCB and schematic design
- Intermediate programming in C, C++, Assembly, PLC/Ladder Logic, embedded systems and microcontrollers
- IIoT integration of existing systems, HMI design
- Strong customer service skills, supervisory and teamwork skills
- Ability to handle cash and deal with general public




PROJECT EXPERIENCE:

- **Microplankton Bioreactor Control System:** Designed control and power distribution circuitry for both seaweed and microplankton bioreactor systems. Involved creating systems for significant control over sensitive biological variables, requiring in depth collaboration with biologist and mechanical engineering teams to design a system to effectively grow all life stages of macroplankton and microplankton. Significant focus placed on pH sensing and control, temperature control, biosecurity, and redundant failsafe systems in order to ensure stability of the plankton culture growth and safety of operation in hazardous industrial environments.
- **RFID based vehicle immobilizer:** Designed PCB using Altium Designer with focus on minimal physical size and power consumption. Required hand soldering of SMD components of various packages, PIC24F series microcontroller programming, consideration of vehicle safety in the event of device malfunction, and verification of features and design requirements with oscilloscope testing. 86% grade received on capstone project completed as part of diploma program.
- **Arduino based motorcycle ECU:** Implemented open-source engine controller in order to control ignition and fuel mapping for a motorcycle engine swap project. Required hand soldering of THT components on custom Arduino shield, analysis of engine timing components using oscilloscope testing, creation of custom wiring harness, and EFI tuning research to ensure compatibility of all components. Project in progress.

EDUCATION:

- Jan. 2023 (Currently tending) Electronics Engineering Bridge Program - Camosun College
- May 2021 Electronics Engineering Technologist Diploma (90% GPA) - Okanagan College
- Apr. 2019 1st year of Business Administration Degree - Okanagan College

EMPLOYMENT EXPERIENCE:

Date	Title	Employer	Responsibilities 
Jun. 2021 - Jan. 2023	Electronics Technologist	Industrial Plankton	<ul style="list-style-type: none"> - Electrical assembly design for wiring harnesses, control circuits, and power distribution circuits in Bioreactors - Production integration documentation for all new and existing electrical assemblies, including creating instruction-sets and maintaining existing ones - Management of co-op students and safety during electrical assembly of Bioreactors, including training, monitoring, and QA/QC
Jul. 2017 - Sept. 2020	Electronics Repair Technician	Kelowna Cell Repair	<ul style="list-style-type: none"> - Motherboard diagnostics and micro-soldering repairs on customer devices such as smartphones, laptops, appliances, etc - general component replacement/repairs including LCD screens, charging ports, speakers, microphones, cameras, and other major components - General customer service, intake and service ticket generation
Apr. 2014 - Dec. 2017	Production Manager	Artix Custom Screenprint	<ul style="list-style-type: none"> - Creating and maintaining production timelines, evaluating project performance and progress - Operation of industrial equipment, including pneumatic automatic silk-screening presses, conveyor-belt dryers, large-format printers and vinyl plotters, and heat-press equipment - Management of production staff, task delegation, QA/QC
Dec. 2013 - Jan. 2014	Seasonal Sales Associate	Future Shop	<ul style="list-style-type: none"> - Sales - Customer Service - General diagnostics of electronic device issues
Sept. 2010 - Present	Technical Support Services	Self-employed	<ul style="list-style-type: none"> - General diagnostics and repairs of electronic devices - General diagnostics and repairs of mechanical devices including vehicles

REFERENCES:***Additional references available upon request***

Robert Roulston	CEO, Industrial Plankton	(250) 514-4810	robert@industrialplankton.com
Stuart de Haas	Mechanical Engineer	(250) 415-1318	stuartdehaas@gmail.com
Kevin Bradshaw	Electronic Eng. Professor, Okanagan College	(250) 762-5445 ext 4375	kbradshaw@okanagan.bc.ca
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