

KEVIN CORBETT

CONTACT INFO:

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SKILLS & COMPETENCIES:

- Design and assembly of AC power distribution systems
- Networking/interfacing, 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:

- **Plankton 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:

May 2021 Electronics Engineering Technologist Diploma (90% overall 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	Electrical assembly design, production integration documentation, management of co-op students and safety during electrical assembly
Jul. 2017 - Sept. 2020	Electronics Repair Technician	Kelowna Cell Repair	Motherboard diagnostics and micro-soldering repairs, general component replacement/repairs, customer service
Apr. 2014 - Dec. 2017	Production Manager	Artix Custom Screenprint	Production timelines, operation of industrial equipment, management of production staff
Dec. 2013 - Jan. 2014	Seasonal Sales Associate	Future Shop	Sales, customer Service, general diagnostics
Sept. 2010 - Present	Technical Support Services	Self-employed	General diagnostics and repairs of electronic and mechanical devices and 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
Sebastiaan Pynappels:	CEO, Kelowna Cell Repair	(250) 864-4478	info@kelownacellrepair.com