**K E V I N C O R B E T T**

**CONTACT INFO: (250) 808-3787 – Cell**

**kevin.corbett95@gmail.com**

**407-765 Hockley Ave,**

**Victoria BC, V9B 0Z4**

**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:**

* **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 Attending) 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 | * 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 | * 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 | * 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 | * Sales * Customer Service * General diagnostics of electronic device issues |
| Sept. 2010 - Present | Technical Support Services | Self-employed | * 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](mailto:robert@industrialplankton.com)

**Stuart de Haas** Mechanical Engineer (250) 415-1318 [stuartdehaas@gmail.com](mailto:stuartdehaas@gmail.com)

**Kevin Bradshaw** Electronic Eng. Professor, (250) 762-5445 [kbradshaw@okanagan.bc.ca](mailto:kbradshaw@okanagan.bc.ca)

Okanagan College ext 4375

**Sebastiaan Pynappels**: CEO, Kelowna Cell Repair (250) 864-4478 [info@kelownacellrepair.com](mailto:info@kelownacellrepair.com)