**Kevin Handcock P.Tech(ENG)**

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**Transferable Skills**

* Adaptive, learns new skills and knowledge quickly and easily
* Fast thinking, dynamic, goal-oriented, exacting attention to detail
* Works efficiently as an individual or part of a multidisciplinary team and under tight deadlines
* Passionate about keeping a safe and inclusive work environment

**Design and Technical Skills**

Supervise

* Hiring, supervision and evaluation of a 4-person team
* Coordinated multiple trades through a complex equipment installation

Design

* 12 years of experience in new product development
* Has taken 4 major projects from concept all the way through to production release and support

Build

* Re-working and inspecting life critical equipment
* Use of a 3D printer and CO2 laser for prototyping
* Laboratory level reflow for building prototype boards in house

Testing & Validation

* Use of FMEA and DOE to drive validation plans and testing goals
* Design and execution of “quick and dirty” and formal validation plans
* Testing across a range of environmental conditions
* Creation of production test procedures, including test fixtures.
* 20 years experience troubleshooting electronics

Schematic Capture and Layout

* IPC Certified Interconnect Designer (CID)
* 10 years experience with Altium Designer
* Power electronics, analog, and low speed digital circuits

**Education:**

Bachelor of Science in Electronics Engineering Technology,

DeVry Institute of Technology, Calgary AB

GPA 3.49

ASET P.Tech(ENG) Designation

**Professional Experience:**

Dyno Test Supervisor:

Exro Technologies: Jul 2023 – Apr 2024

* Hired, supervised, and mentored a team of 4 diversely skilled technologists
* Continuously improved processes, safety, and equipment: reduced time to run one characterization test from 3 weeks to 2 days.
* Performed performance evaluations of employees
* Ensured that technologists had the tools, parts, and training to complete their assigned work

Dyno Test Technician

Exro Technologies Sept 2021 – Jul 2023

* "Owned" the dynamometer(dyno) equipment. Responsible all elements of dyno operation and maintenance
* Managed and coordinated multiple trades in the installation two 750kW, 2100Nm, regenerative dynamometer (dyno) systems, on schedule and budget
* Built from the ground up a 13kW dyno system with the assistance of mechanical and software engineers
* Safely operated and maintained the systems to perform characterization, validation and commercial testing of product

Electronics Technologist

Global Power Technologies Jul 2011 – Sep 2021

* Worked as part of a cross functional team to design, develop, validate, and maintain Thermal Electric Generators (TEGs)
* Schematic capture and PCB design of power, analog, and low speed digital designs up to 6 layers, and produced fabrication documents
* Validated PCBAs, subsystems, and full systems to ensure they met specifications
* Investigated failures to determine the root cause, including 2 major field failure investigations. Resulted in saving a contract worth $2,000,000.
* Developed test and assembly procedures for production personnel
* Employee Co-chair of the safety committee

Phalanx Electronics Technician

Raytheon Canada Limited: Oct 2007- Jul 2011

* Performed acceptance testing on digital, analog, and RF circuit cards
* Held IPC-A-610 certification and repair class 1 (life critical) electronics
* Diagnosed failures using a variety of tools, test equipment, and techniques
* Upheld strict quality requirements on life critical systems
* Read and interpreted schematic diagrams, drawings, and military specifications
* Overhauled and monitored an Electro-Static Discharge (ESD) control program
* Held Canadian Secret Security Clearance and worked in an ITAR controlled environment

Obsolescence Management Specialist

Raytheon Canada Limited: Nov 2006- Oct 2007

* Tracked sources of supply and maintained a database of over 7000 components
* Performed sparing, reliability and cost analysis on the APG-73 airborne radar (CF-18). Resulted in a contract worth over $1,000,000
* Performed investigations to determine compatibility of devices