



MCC Toronto

Electrical Engineer

(Customized HVAC)

EDUCATION:

- Minimum bachelor's degree or equivalent in Electrical Engineering
- HVAC experience preferred.

SALARY:

- \$65,000 – 100,000 per year

REQUIRED KNOWLEDGE:

- Minimum 3 years' experience in electrical design, prototyping, and testing of electronic products.
- 3 or more years of electrical development experience in automotive, off road, transit, rail electrical systems or HVAC.
- Hands-on experience in system development such as prototyping.
- Must have proven experience with design of electrical systems for harsh operating environments.
- Must have good leadership skills and able to work in a fast-paced environment.
- Must have experience with control system development.
- Extensive knowledge of electrical/electronic systems and basic knowledge of mechanical systems.
- Thorough knowledge of 12v, 24v, 48v, 320 and 800 VDC and low voltage AC (120, 220, 400, 460, 575 VAC etc.) components and associated wiring for mobile applications.
- Knowledge of electrical AC/DC motors, switches, blowers, fans, heating elements, contactors, wire/cable requirements, circuit protection, and control electronics.
- Must have proven experience designing to and complying with CE, E mark and SAE standards. Must make sure that all products comply with these standards for the destination market.
- Proficient in Autocad or other CAD packages for drafting of electrical schematics.
- Experience in 3D wire harness design.
- Experience in electrical/electronic troubleshooting.
- Must be able to work independently.
- Self-starter and must be able to identify the next sequential task.



PREFERRED EXPERIENCE:

- Able to read/interpret government specs.
- Exposure to Military or other government projects.
- Familiarity with material and resource planning.
- Knowledge and understanding of power electronics components.
- Experience with and/or understanding of AC variable frequency drives.

BRIEF JOB DESCRIPTION:

- Design electrical, power management and control systems for HVAC products.
- Produce detailed electrical schematics and wiring harness drawings, documentation, verification and test plans specific to customer and project requirements.
- Liaison and periodic travel to end customers
- Will liaison with vendors for technical information and specifications.
- Assign part and drawing numbers and create BOM's.
- Identify electrical/electronic components, connectors and wiring required to be used in new and existing products.
- Assist in fabrication of prototypes testing and samples for production when required.
- Participate in preparation of bid/proposal documents.
- Product qualification testing
- Occasion travel.

Position available immediately.

To apply, please email Nancy Barrett at nancy.barrett@mcc-hvac.com

Mobile Climate Control encourages applications from all qualified candidates. Please contact Nancy Barrett at nancy.barrett@mcc-hvac.com or 1-905-482-2750 ext. 1266 or Cell: +1+647-405-6651 if you need accommodation at any stage of the application process or want more information on our accommodation policies.