



WANTED: Electrical Engineer – Controller Hardware & Firmware Development for Automotive Safety Devices and Aftermarket Products

- Strong project management skills
- Skilled in circuit board, firmware, harness and motor control design
- Proficient with electrical hardware and software design tools
- Able to work with minimal supervision
- Familiar with automotive products and industry
- Able to roll with the punches, adapt to on-the-fly changes
- Excellent communicator
- Able to identify and remain focused on high level goals amongst day-to-day noise

We are recognized as a North American leader in design and manufacture of exhaust brakes, intake shut-off valves, engine brakes, as well as air-spring helper kits for light and heavy duty diesel engine vehicles. We are conveniently located in Port Kells (Surrey), BC, blocks from Highway 1, the Golden Ears Bridge, and South Fraser Perimeter Road.

We are currently looking to grow our Electrical Engineering Team, whose projects span Emergency Intake Shut-Off Valves, and Aftermarket Automotive Products

- Increase capacity for new Emergency Intake Shut-Off Valve projects
- Reduce project durations through critical thinking and improved project management
- Improve user experiences with product through increased reliability and reduced complexity
- Product cost optimization

Responsibilities of a fitting individual will include:

- Design of new and troubleshooting existing products electrical hardware and software
- Planning and delivery of schedules and expected project costs
- Peer review and development gate sign-offs
- Providing direction to the electrical engineering team
- Participate in resource planning
- Mentorship and growth of electrical engineers
- Risk reduction through verification and validation activities including generation and execution of test plans (Simulation, bench, field and dyno testing), as well as keeping a current Design Failure Mode and Effects Analysis (DFMEA)
- Reporting status to stakeholders/keeping collaborators updated

The following will make you stand out from other candidates:

- Able to identify high level goals, and steer oneself appropriately
- Critical thinker with strong and rational justification for decisions
- Clear and concise email communication and documentation



- Abilities to support sales, as well as work with disgruntled customers
- Willingness to resolve design issues through visiting the field
- Organized – able to keep track of project deadlines, project statuses, costs, customer specifications, as well as other project documentation
- Willingness to go the extra mile to get the job done

Familiarity with the following tools would be required:

- C/C++/Assembler embedded programming AVR
- Atmel studio 6.2
- RS232 communication
- CANBus communication
- OBDII communication
- Motion control for stepped/brush DC/brushless DC motors
- LabVIEW
- Electronic design (schematic, PCB layout, fabrication)
- Electronic testing/validation
- Digital multimeter
- Oscilloscope
- PLC

We are open to candidates with varying levels of experience – ability to learn, independence/maturity, and cultural fit will have major bearing on candidate selection.

All applications without a cover letter will be ignored – justify how you are a fit for the above.

Please submit your resume via email (as a Word document or a PDF file) to hr@pacbrake.com.

Please include the job title and website (i.e. Electrical Engineer – Pacbrake.com) in the subject line of your email, along with salary expectations.

We thank all applicants, however, only those candidates selected for interviews will be contacted.

- Pacbrake Management