

Electrical Engineer (PCBA & Control Circuits) – Job Description

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Position Resides at:

QM Power Inc.
3768 S. Lapeer Rd
Lake Orion, MI 48359

About QM Power Inc.

At QM Power we are hard at work enabling the most efficient, reliable and cost-effective solutions for our customers. Our most important asset is our people. We hire only the very best and brightest for every position in our Company.

Ideal candidates will have a strong track record of setting stretch goals and consistently exceeding them, both as an individual and as part of a team. They will have exceptional organizational skills, a keen intuition obtained through significant experience, the highest integrity, be capable of wearing many hats at the same time and be passionate about doing whatever it takes to deliver results for our customers and stakeholders. In exchange, we will strive to provide a challenging, flexible and fun work environment, competitive compensation packages and an excellent chance to make the world a better place.

If you feel you or someone you know may be a good fit for a listed job posting, please send a cover letter and resume or CV to careers@qmpower.com, with the specific job posting referenced in the E-mail's subject line.

Job Description

This role reports to the Platform Application Engineering Manager and located in Lake Orion, Michigan. As the PCBA & Controls Electrical Engineer you will be responsible for collaborating with R&D engineering to receive design hand-off and continue the development of these products to market. You will play a critical role in finalizing proof-of-concept PCBA & control designs, carrying them forward through validation and commercialization activities including cost and performance optimization. A self-motivated, team player, who can communicate cross functionally and enjoys a fast-paced environment will thrive in this position. Goals for the Mechanical Design Engineer:

- Ability to grasp QM Power's technology and become subject matter expert for all aspects related to electrical design and control.
- Receive handoff of prototype circuit designs from R&D team and continue the product development for application specific value streams.

Key Responsibilities

- Take ownership of electrical circuit and controls design for electric motor controllers from R&D Engineering team, continuing the product development cycle of the end product.
- Perform product design optimization with focus on production cost and product performance targets.
- Encourage the use of best practices in engineering design and lead the application of advanced electrical engineering theories, methods and research techniques.
- Work closely in a team environment collaborating with internal development engineers, external manufacturing partners, and customer's engineering teams to ensure robust product design for market.
- Participate in continuous improvement and cost reduction efforts for existing and future designs.

Required Skills & Experience

- Minimum Bachelor's Degree in Electrical or Computer Science Engineering, or related curriculum.
- Minimum 8 years of experience in electrical engineering for electric motor and drives products with proven team leadership.
- Experience designing and troubleshooting PCBA's.
- Ability to model designs through the use of computer software tools such as Matlab, Simulink, or similar platforms.
- Experience in Automotive, HVAC, or Consumer Electronics industry.
- Experience working with both analog and digital systems and components.
- Working knowledge and experience with PCBA manufacturing processes for prototype and commercial production.
- Flexibility and adaptability in a dynamic, fast-paced small company work environment.
- Excellent written and verbal communication skills.

Preferred Skills & Experience

- Master's Degree in Electrical or Computer Science Engineering with a focus related to electric motors and their controls.
- Experience with fast paced PCBA development projects.
- Working knowledge and application experience with induction, permanent magnet and or switched reluctance motor's desired.
- Excellent verbal, written and presentation skills in English preferred.
- Interface with customer's technical stakeholders to articulate QM Power's technology, and ensure internal efforts are aligned with voice of customer.