

Job title: **Power Electronic Application Engineer: PowerSense®**
Education level: **MEng or BEng in Electrical & Electronic Engineering**
Location: **Paarl, South Africa**
Employment type: **Permanent, on-site**
Experience level: **2-5 years' experience**

The selected candidate will contribute to application design within the PowerSense® division. This dynamic multi-disciplinary team excels in the design, development, manufacturing, and testing of electronic modules as well as IoT driven hardware and software solutions.

We are seeking a skilled Power Electronics Engineer to join our team, with expertise in power electronic design and development. The successful candidate will play a key role in:

- Exploring innovative applications utilizing Azoteq ASICs in new product design concepts.
- Designing and developing power converter modules.
- Creating various robust hardware solutions in line with current developments efforts.

As a vital team member, you will:

- Take ownership of projects, driving them from conception to completion.
- Contribute positively to team culture, fostering collaboration and innovation.
- Provide support and expertise to colleagues as required.
- Help exceed client expectations through exceptional project delivery and teamwork.

This role requires a proactive, results-driven individual with a passion for electronic design and a commitment to excellence.

Overall purpose:

- Product development, design, testing and production.
- Managing project scope before, during and after delivery.
- Support existing products and clients.

Core responsibilities include:

- Implementing the electronic hardware design and development of modules.
 - Capture requirements.
 - Develop/Synthesize and propose solutions.
 - Source components and develop prototypes.
 - Industrialize/Commercialize designs for high volume production.
- Ensure designs are qualified and validated.
 - Drafting test specifications.
 - Documenting tests results.
 - Ensure projects are completed and documented in accordance with the PowerSense D&D process (ISO9001:2015).
- Product life cycle support.
 - Provide support to clients and manage the product supply chain.

Skills required:

- Any related hands-on experience in power electronic design.
- Proto-typing, hardware verification, testing, debugging and troubleshooting electronic circuits.
- Working knowledge of Altium Designer or similar CAD package.
- Proficient with MCU firmware development in C, C++ as well as Gitlab for version control.
- Good written and verbal communication skills, with ability to effectively interface with internal teams and external stakeholders.

Please forward your CV to louisa.havenga@azoteq.com

Clearly state the application is for the “Power Electronics Application Engineer” position and attach a CV and relevant information to the application.