



Job title: **Electronic Hardware Test Engineer**  
Education Level: **B.Tech Electronics, B.Eng Electronics, or similar**  
Experience Level: **0-6 years**  
Location: **Paarl, South Africa**  
Employment type: **Permanent**

Are you a self-starter, detail oriented, able to plan your work and carry projects from start to finish and be comfortable working in a team environment? Do you enjoy innovative technical work? If so, this is the right opportunity.

#### **Job Description:**

You will be involved in testing and characterization of integrated circuit (IC) microcontrollers, analog sensors and LED drivers. Candidates must be able to understand and interpret analog- and digital schematics to develop electronic hardware and associated firmware that will fully characterize the circuits.

Microcontrollers and ASICs with various functions will be tested, including

- Capacitive sensors, Magnetic sensors, Light sensors
- High power LED drivers

Challenges lie in developing accurate and time-efficient test systems.

#### **Skills Required:**

- Embedded microprocessor development experience (e.g. Microchip PIC, STM8)
- PCB design
- Scripting (e.g. Python)
- Systematic approach and well organized work methodology

#### **Advantageous skills:**

- Knowledge of integrated circuits
- Analog simulation using SPICE-based simulator
- Experience using VHDL and Verilog
- FPGA development (Altera)

The candidate must be a self-motivated, be able to plan their own work and carry projects from start to finish. The candidate must enjoy innovative and detailed technical development work and be comfortable working in a highly skilled team environment. It is a rewarding position in that the candidate will be exposed to fast moving state of the art development work, modern deep-submicron processes and collaboration with major international semiconductor players. Problem solving skills as well as working efficiently is essential.

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#### **About Azoteq**

Azoteq is a fabless semiconductor company founded by Dr. Frederick Bruwer in 1998. The company prides itself in innovation with more than 39 patents issued and filed on the IQ Switch® product range. The R&D headquarters are situated in Paarl, South Africa. Offices in Pretoria, Shenzhen, Shanghai, Hong Kong, Taipei, Singapore, Tokyo, Seoul, Munich and Texas support the marketing, sales and supply chain functions.

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