

Electrical Test Engineer at SunCulture Kenya Ltd

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Company: JobWebKenya

Location: Kenya

Category: architecture-and-engineering

Job Description

Since the sale of our first kit in , SunCulture has been on a mission to help smallholder farmers in Africa improve both crop yields and quality. We are driven to constantly innovate and improve our technology to make solar powered irrigation solutions truly affordable for the millions of farmers on the continent

About the role:

SunCulture has reached an exciting phase in its development and is poised for significant growth. The organization needs an experienced Electrical Test Engineer who is responsible for understanding the technical requirements of various projects and programs within Research & Development, drafting and executing test plans, and preparing detailed test reports for all key stakeholders.

Note: This role requires frequent travel and applicants should be comfortable with relocation to SunCulture's R&D Office in Nanyuki.

Key Responsibilities:

Prototype and assemble (hand solder) electronic equipment

Use SunCulture specific tools to program control units and carry out firmware tests

Collaborate with the product and embedded systems engineering teams to draft & execute detailed test plans

Identify and root cause hardware defects and firmware bugs and track release notes Identify

hardware and firmware bugs, perform root cause analysis and track release notes
Maintain complete and accurate documentations for product bugs in order of priority

Perform flow, power, and efficiency tests for SunCulture water pumps

Maintain a clean, tidy, and organized work area

Clearly document all tests carried out and present data clearly & concisely through slide decks or written reports as needed

Continuously update detailed changelogs to track the history of all devices under test

Provide technical support for customers using SunCulture's pilot products

Transfer knowledge & train internal teams on new products when transitioning from pilot stages through commercialization

Does this sound like you?

2+ years of experience in embedded systems firmware and hardware testing

BEng/BSc.in Electrical/Electronics/Mechatronics Engineering; Masters degree a plus

Practical knowledge and hands-on experience with embedded systems (hardware and firmware)

Hardware: Understanding of fundamental principles of solar energy gathering and converting; Basic knowledge of DC/DC converter topology and principles of operation; Skills in probing PCBs for issues & experience working with multimeters and oscilloscopes Ability to read and understand PCB schematics; Eagle CAD experience is a plus;

Firmware: Ability to log firmware issues (maintain a bug tracker), troubleshoot and provide feedback to the embedded systems engineering team; Experience with flashing different types of devices – ESP32, Atmel AVR, NRF51/52, etc. Atmel AVR and ESP32 debugging experience is a plus;

Understanding of hardware requirements and design considerations for off-grid solar energy systems

Experience working in the off-grid solar sector; solar water pumping systems a plus

T2 license from the Energy Regulatory Commission of Kenya is a plus

Excellent research and very strong interpersonal skills and ability to connect with diverse team members

Excellent task prioritization and time management skills

A proven record of ability to work with minimal supervision

Able to fluently communicate in English; Swahili is a plus

Comfortable with ambiguity and able to plan, organize, and execute to meeting deadlines in a fast-evolving environment

Strong verbal and written communication skills

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