

Sr. Electronics Test Engineer

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Company: Bose

Location: Shenzhen

Category: architecture-and-engineering

You know the moment. It's the first notes of that song you love, the intro to your favorite movie, or simply the sound of someone you love saying "hello." It's in these moments that sound matters most.

At Bose, we believe sound is the most powerful force on earth. We've dedicated ourselves to improving it for nearly 60 years. And we're passionate down to our bones about making whatever you're listening to a little more magical.

The engineering team at Bose is a thriving, passionate, deeply skilled team of professionals from a broad range of disciplines and experiences, who share a common goal—to create products that provide transformative sound experiences.

Job Description

Bose Corporation is seeking an Electronics Test Engineer located in Shenzhen. Electronics Test Engineer will work as a subject matter expert in ensuring CM processes meet Bose requirements. You will guide, oversee, review, and approve the test process development of our new products. Working closely with our contract manufacturers and development teams you will identify risks and serve as a subject matter expert in test process related activities. You will have the responsibility to ensure/manage that our contract manufacturers (CMs) meet defined NPI deliverables throughout the development process. This is a global role with interfaces in China, SouthEast Asia, as well as with our North America Team.

Responsibilities:

Being a subject matter expert in PCBA , Final Assembly, and System test to support test

system design and procurement.

Reviewing, overseeing & approving CM developed test solutions.

Conduct DFT reviews and provide input to the development teams on alternate test methods.

Being responsible for ensuring adequate test coverage at the best value for Bose.

Design reviewing test sequence (software script), test systems and test fixtures used in automated testing.

Reviewing and approving strain analysis results, test coverage reports, measurement system analysis, capability studies

Overseeing, reviewing, and managing test related quotations for capital estimates

Ensure CM processes meet Bose requirements.

Closely work with our contract manufacturers and internal Bose teams to identify and manage risks proactively.

Review, comment, and approve of testing process and equipment development activities

Drive CMs to execute NPI activities on time / within budget

Evaluate CM capabilities and gaps.

Summarize project status and elevate abnormalities

Skills:

Ability to read and analyze schematics.

Strong debugging skills, both software and hardware.

National Instruments TestStand and LabVIEW experience and ability to perform design review on test sequences developed by others as necessary.

Familiarity with of MSA and how to apply it to test systems

Familiarity with test methods for wireless and sensor technologies (Wifi, Bluetooth, NFC, IMU).

Experience with audio systems, audio test equipment or measurements is a plus.

Strong fundamental knowledge of analog and digital circuit analysis and design

Analog and digital measurement/data acquisition fundamentals

Experience using lab equipment: Multi-meter, oscilloscope, power supply, waveform generator, spectrum analyzer, frequency counter, audio analyzers

Knowledge and understanding of the application of communication protocols such as SPI, I2C, USB, UART, I2S, TDM, PCM, PDM, GPIB, Ethernet, etc.

Knowledge in In-Circuit test, functional test fixture and test system design and deployment in manufacturing

Experience in application of DOE and other problem solving methods

Programming capability and experience with C/C++, Python.

Understanding of Agilent i3070 programming and ability to review and approve test mains developed by others, knowledge in IEEE1194.1 Boundary Scan

Ability to analyze empirical data with a good understanding of statistics tools and charts.

Ability to review and provide cost estimates and analysis on test system solutions and quotations provided by Bose suppliers

Ability to use structured problem solving tools

Basic project management skills, scheduling, budgeting

Ability to work on several different projects simultaneously

Ability to work with teams both locally and internationally.

Good verbal & written technical communication skills

Fluent in speaking, reading and writing in English

Self-motivated and self-driven

Ability to influence others – particularly our CMs to ensure high quality solutions are achieved

on time and on budget.

Education:

Bachelor of Science in Electronics Engineering

Our goal is to create an atmosphere where every candidate feels supported and empowered in the interviewing process. Diversity and inclusion are integral to our success, and we believe that providing reasonable accommodation is not only a legal obligation but also a fundamental aspect of our commitment to being an employer of choice. We recognize that individuals may have different needs and requirements based on their abilities, and we provide reasonable accommodations to ensure ideal conditions are met during the application process.

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