Bench Characterization Engineer (DC-DC / AC-DC Converters)

Type: Full-time
Reports To: Director of Test Engineering
Location: San Diego, CA

Job Description and Responsibilities

The Bench Validation Engineer is responsible for developing bench solutions for new products including evaluating and selecting bench top equipment, determining test requirements, writing software, and fully characterizing the devices.

- Strong experience in the areas of DC/DC and AC/DC converters
- Define validation framework, own and execute working with cross functional global teams
- Developing and writing validation plans, working close with test team for characterization & bench-to-ATE correlation
- Designing, selecting, purchasing, and documenting hardware: Bench boards, HTOL boards.
- Develop automation infrastructure using Python or LabVIEW and lead & mentor interns & junior Engineers

Minimum Requirements

Must possess/demonstrate the following:

- BSEE or similar with minimum 7+ years of experience in silicon validation, board-level hardware design or IC design
- Experience in developing automation using LabVIEW or Python or any other test automation tools
- Familiarity with bench equipment including source/measurement units (SMUs), multimeters, oscilloscopes, semiconductor parametric analyzers
- Ability to analyze statistical data and understand basic statistical concepts such as mean, standard deviation, variance, and Gaussian curves
- Self starter who is able to manage assigned tasks with minimal supervision
- Must be able to present data in an organized and complete manner
- Experience with databases and yield analysis tools such as Galaxy, JMP, Data Power, or DataConductor
- Proven track record of solving complex or comprehensive problems.
- Excellent written, oral communication and presentation skills are necessary.
- Proven ability to influence teams in a positive way fostering a cooperative and productive working environment.

Preferred qualifications:

- Experience with characterizing, testing or working with Power management devices.
- Experience designing complex bench or test hardware for testing mixed signal products
- Experience with LabVIEW and Python automation.
- Capable of developing a detailed validation plan for the device datasheet specs and

system tests