



George Liu

Applications Engineer at NH Research

George Liu has over 10 years of experience in the testing and validation of power electronic systems. He has extensive experience working with test equipment manufacturers and automated test solutions around the globe. As the Applications Engineer, George is responsible for supporting and customizing NHR hardware and software solutions across a wide range of industry applications. He received his bachelor's in electrical engineering from Cal Poly Pomona and has proficiency in English, German and Mandarin languages.

The Fundamentals of Battery Module and Pack Test

The battery market is growing rapidly due to the acceleration of electrification in the automotive, aerospace and energy industries. In turn, batteries have become the pivotal component for electrifying automobiles, planes, trains and the grid. Therefore, it's imperative that today's engineers, researchers, and managers understand the fundamentals of how to test batteries as well as the most productive approaches to ensure product performance, safety and time to market.

Battery pack and module testing is becoming more critical than ever. Today, engineers face new challenges including increased complexity of the tests and set-ups, long development and test times, addressing safety requirements and avoiding hazards. Furthermore, testing to the application requires emulating real-world conditions by reacting to CAN, BMS and other communication protocols.

In this presentation, learn about:

- Industry trends impacting battery test
- The fundamentals of battery module/pack testing
- How to reduce time to market and improve engineering productivity
- Next generation solutions for battery test

