Test & Validation Engineer

Description

The Test & Validation Engineer is a hands-on role, with a background in the test and validation of new products. Reporting to the Engineering Manager, they are responsible for writing and following test plans and executing tests, gathering data, and reporting on results to internal and external customers.

This role will be working hands-on with mechanical and electrical systems. Software use could include MATLAB, LabVIEW, CANalyser amongst others, with training provided where required. Identify and implement any equipment needed to perform testing or improve facilities; ensuring accuracy, repeatability and industry standards are always met. This may include input towards fixturing design, creation of device specifications and innovative test methodologies.

Responsibilities

- Input into specification of fixturing and test equipment
- Preparation of test rigs and equipment
- Setup of data acquisition systems; creation of automated rig control scripts
- Post-processing and analysis of data
- Create technical documentation: system test specifications and test plan/reports
- Carrying out tests against customer or internal requirement specifications
- Promoting repeatability and robustness of test processes with a focus on safety
- Take ownership of problems and resolve them
- Liaising with external test houses to assist with the delivery of tests, including reporting and maintaining to agreed schedules
- Maintaining test equipment, advising, and implementing improvements as required
- Ensuring a safe working environment by following, supporting, and maintaining working practices
- Supervise and support test technicians
- Infrequent travel to independent test facilities or other locations
- Be present and hands on in the workplace to support projects

Qualifications

- Degree in Electronic/Electrical Engineering or similar Degree qualification
- Or HND and 5+ years of experience in electro-mechanical motor / controller testing preferred
- Minimum 4 years' testing experience working in an electro-mechanical design environment
- Strong electrical engineering background with the ability to apply fundamental engineering principles to the analysis and interpretation of test results
- Strong analytical and judgment skills including the ability to troubleshoot and advise on solutions in testing
- Practical knowledge in the testing of electric machines or similar

Employment Type
Full-time

Job Location
Cardiff, Wales, UK

Date posted
November 12, 2021

components beneficial
- Modelling and simulation experience using software such as MATLAB/SIMULINK is an advantage
- Experience with basic electronics tools: oscilloscope, data logger, power supplies, active loads
- Proficiency in LabVIEW preferred
- Must be organized and have methodical approach to problem solving
- Strong oral and written communication skills
- Ability to work independently and as part of a team
- Valid UK driving license