



Electronics Engineer

Your Role

Reporting to the Lead Electronics Engineer, you are a member of the Electronics Team with personal responsibility for the development and implementation of test fixtures for air movement products, rotating machinery and related assemblies to meet not only the generic needs of the low carbon heating and ventilation market, but also the individual application requirements of specific customers. Coordinating with the development, quality, manufacturing and commercial functions of the business you will ensure that production test equipment is fully developed, fit for purpose and clearly documented, translating product requirements and specifications into fully function production ready test fixtures that meet the requirements of both internal and external customers. You will manage your own workload to complete diagnostic, laboratory test and implementation activities within timescales required, monitoring and providing feedback on your progress whilst being prepared to proactively communicate exceptions to these timescales and related project plans if necessary.

Your Goal

To understand project and production technical requirements in conjunction with both our internal and external customers, to undertake the detailed electronic and electromechanical design activities required to translate these into effective production test equipment and to ensure that robust, reliable technical solutions are produced, implemented, demonstrated as fit for purpose, delivered and maintained in a design-for-manufacture environment.

Your Objectives

1. To work collaboratively with the technical teams to develop hardware solutions, performing relevant calculations, associated simulations and tests to deliver robust, innovative test equipment.
2. To work collaboratively with the technical teams to ensure analogue and digital electronic circuits deliver robust, innovative technical solutions with sound theoretical basis.
3. To ensure that designs meet EMC and LVD requirements, carrying out relevant development, testing and debugging.
4. To understand product performance principles, identifying key specification issues and performance criteria in order to develop, demonstrate and carry out robust product functionality tests.
5. To assist the business with identifying existing product or application issues and then delivering robust, proven test equipment solutions.
6. To undertake air performance, vibration, acoustic noise and EMC testing.
7. To construct and evaluate test samples in conjunction with the technical teams.
8. To understand and comply with the requirements of ISO 5801 for air performance testing.
9. To understand and apply the fundamental principles relating to fans and fan laws.
10. To provide detailed laboratory reports identifying product performance, operation and key functional information in accordance with the standards established by the business.

Your Values

Your technical ambition must be based upon providing a professional and reliable service to colleagues and customers who are directly affected by the activities in which you are engaged. Personally motivated by a desire to solve problems, you will be meticulous in your approach and confident to engage in theoretical review. Committed to a long term future with the business, you will be energised by working with employees at all levels but retain the self-sufficiency and focus

to deliver cradle to grave project implementations. You will be motivated by a desire to complete tasks on time and to a high level of accuracy, communicating clearly and concisely all aspects of the work. Confident in taking ownership of tasks, you will need to be fully committed by taking on the responsibility to understand and meet required timescales.

Skills & Knowledge

1. Minimum 2:1 relevant Honours Degree qualification with electronic circuit design experience.
2. Schematic capture, PCB layout and circuit testing for equipment design, EMC and LVD.
3. Hands-on design, testing, fault finding and debugging of SMPS, power electronics, control algorithms and associated analogue / digital electronic hardware in a production test environment.
4. Embedded 'C' and assembler code development and maintenance using related tool chains.
5. Practical and technical knowledge of electromechanical principles, production and laboratory disciplines
6. Proven ability to work to deadlines in an industrial environment
7. Experience of a hands-on approach to test equipment realisation and assembly
8. Proficient in the use of Microsoft Office tools
9. Ability to drive and affect project delivery
10. Confident communication skills across a range of media
11. Organised, confident, self-motivated and capable of multi-tasking.

If you would like to apply for this role please forward your CV to careers@torin-sifan.com