

Electronics Hardware Engineer

Company Background

Reactec are a privately owned SME with principle investors Archangels, an investment fund focussed on high growth technology businesses. The business was founded as a university start up in 2001 and took its first fully commercialised product to market in 2008. The product, developed to protect the health of employees using vibratory tools, was brought to market after new health and safety regulations around an occupational disease known as Hand Arm Vibration Syndrome. Reactec were first to market and have subsequently launched a wearable version, maintaining a position as industry leader with the most sophisticated offering which monitors the risk faced by individuals and delivers the monitoring data via a bespoke web application on hosted data servers.

Within 2019 the business has expanded it's technology offering further with the release of an IoT product to gather sensory data for other occupational health risks. A USP for the business is the Azure hosted data Analytics which deliver health sensor data to customers as actionable intelligence in a robust secure platform. The business is seeking to recruit an individual to be part of a diverse and talented engineering team and to help us expand and future proof our holistic ecosystem of work place wearables and intuitive analytics.

The business has a strong reputation as a technology leader, is seeking to expand internationally and is therefore looking for an individual who can make an impact to the business performance with detailed engineering skills and a creative mindset.

The Role

To provide electrical and electronic engineering expertise to the development of Reactec's products and their application in the field.

Responsibilities:

Electrical engineering design of Reactec products

- Schematic design of electronic circuits required for Reactec's product range involving measurement sensors, microcontrollers, displays, RFID, Bluetooth, power / battery management, and mobile communications.
- Recommend components / technologies and processes for design and manufacturing
- Produce PCB layouts
- Technically liaise with contract manufacturers of Reactec products
- Technically liaise with any external expert parties for product design support and certification / qualification

Product design release

- Participate in stage gate design reviews

- **Maintain comprehensive detailed design records exceeding the requirements of ISO9001**
- **Provide product design release information under strict release and change control for contract manufacturers which is comprehensive in clear and easy to understand detail**

Product qualification

- **Take responsibility for defining manufacturing acceptance, product qualification and certification test requirements to address the products application. This includes EMC, Radio and Safety certification**
- **Support product performance validation and debug with firmware and test engineers**

Essential Knowledge, Skills & Experience:

- **Electrical or Electrical and electronic Engineering degree**
- **Strong electronics schematic design skills**
- **Good PCB layout CAD skills**
- **Knowledge of PCBA fabrication process**
- **Microprocessor integration and circuit design**
- **Power management circuit design**
- **Basic RFID circuit design**
- **Experience of fast prototyping techniques for PCBA's**
- **ISO9001**

Desirable Knowledge, Skills & Experience:

- **Orcad Capture and Orcad PCB Editor**
- **RF design experience for small device antenna optimisation**
- **Experience in BlueTooth LE and or UWB**
- **Cellular comms experience**

Direct applications only, no agencies please.

To apply for this role, please send a copy of your CV and details to careers@reactec.com