



Senior Electronics Design Engineer

Vacancy (Full Time)

Rompa has an opportunity for a Senior Electronics Design Engineer to lead and develop our electronics division. We are looking for an individual with a genuine passion for new design who is adept at managing and juggling a variety of projects at any one time.

You will be required to manage and develop your own new electronic product ideas and also bring to fruition suggested electronic products from various stakeholders within and outside the business.

You will manage development projects all the way from initial research, through design, prototyping, product testing, manufacturing and delivery to the marketplace. You will work closely with both local and offshore manufacturers to obtain quotations, assess costs, compile essential product data, and ensure all products comply with relevant US, UK, and EU directives.

With your innovative mind and research capabilities you will identify new market opportunities and develop products to meet emerging needs.

You will foster and nurture the creative skills of your colleagues, assimilate market intelligence from our outbound sales, installations teams, and other colleagues operating in the field, and channel these rich veins of information into efficiently managed projects delivering market leading new electronic products.

Initially, this role is a stand alone position within electronics development, however we intend to grow this team and the successful candidate will be key in any decision making process when expanding our product range.

It is essential to have experience designing digital and analogue systems based around STM32 and ESP32 microcontrollers, writing and maintaining firmware for these architectures in 'C'.

You will also need to be able to maintain and develop associated MCAD solutions using Solidworks, such as enclosures, interfaces and test jigs.

You will provide internal support to our manufacturing and sales team by aiding customer queries using "layman's terms" and simple language to ensure thorough understanding.

Along with product development, you will be expected to understand our range of technical products and offer support for them to our customers, intelligence from this activity will be used to develop our range of products.

You will have exceptional people skills and will be confident when liaising with customers, demonstrating your technical and product understanding to resolve their issues using our technical support programme Spiceworks.

In addition, the role will have specific responsibility for:

- Taking an active part in the initiation of new product ranges and maintenance of legacy products.
- Creating detailed product specifications, hardware designs, prototypes and embedded software to deliver required functionality.
- Ensuring manufacturers and suppliers are briefed accurately, effectively and meet required deadlines.
- Compile and maintain technical data relating to product compliance.
- Building and maintaining strong relationships with our existing supplier portfolio and sourcing new suppliers for specific projects.
- Ensuring product feasibility and produce a calculation/study for any capital projects.

It is important to us to make successful recruitment choices and we believe the ideal candidate should also possess the following skills and attributes:

- Strong understanding of communication protocols, including SPI, UART, and I²C.
- Experience working with Zigbee RF modules.
- Proficient in PCB layout and schematic design using Altium Designer.
- Hands-on experience with STM32 and ESP32 microcontrollers at the hardware level.
- Skilled in the use of test equipment such as multimeters and oscilloscopes.
- Familiarity with manufacturing techniques, design for manufacture (DFM), and EMC compliance requirements.
- Experience with mechanical design, ideally using SolidWorks.
- Design experience for injection moulding / vacuum forming (desirable).
- Writing applications for Raspberry pi with Python (desirable).
- Design experience of high-power LED devices / constant current circuits (desirable).
- Strong analytical skills and the ability to spot trends.
- Excellent time management skills when managing workloads and ability to meet strict deadlines.
- Enthusiastic and highly self-motivated.
- Logical and creative mind and is eager to innovate, learn and develop.
- Excellent troubleshooting and problem-solving skills.

Should you be interested in the above role, please apply to Lisa Dunks (lisad@rompa.com) with a covering letter, CV and current salary details.

Rompa is an innovative business consistently producing the very best in new, state of the art products and sensory solutions. Home of the Snoezelen®, Winslow and Older Adults brands, we operate throughout the UK and offer a full installation and mail order service to a varied customer base.

We also have over 50 international partners in our portfolio making us a truly global company.

Our Snoezelen® multi-sensory rooms offer wonderful therapeutic care for children and adults with differing levels of abilities. Our rooms nurture the body and are designed to promote sensory modulation and facilitate the learning and practice of stress management.

Our specialist rooms are being used in hospitals, health centres, developmental disability units and many other settings all over the country to help improve people's quality of life.

Rompa is an equal opportunities employer and we are committed to equal employment opportunities regardless of age, disability, sexual orientation, sex, gender reassignment, pregnancy and maternity, religion or belief, race or marriage and civil partnership.

We base our employment decisions on merit, job requirements and business needs.