

Job Title:	Analogue Design Engineer	Reports to:	Design Manager
Department/Group:	Product Development	Security Type:	SC (or eligible to apply)
Location:	STSDefence Ltd, Gosport	Travel Required:	UK

Job Purpose:

The Analogue Design Engineer will be responsible for all analogue electronics design and development for a new range of M2M/IoT themed intelligent monitoring products and solutions, involving remote sensor networks, intelligent sensor data analysis, data extrapolation and process optimization, for a variety of end-user markets, including maritime, energy, emergency services, defence & security.

The role will work alongside a digital electronics engineer, and other product designers, to create hybrid electronic designs, based on specifications created by a product management team and lead product designers, exploiting innovative research and advanced development undertaken by the dedicated Research & Development (R&D) team. Subject matter experts (SMEs) from R&D will also support the transition of prototype designs into product development, ensuring that the outcomes of investment in innovation are preserved and protected throughout the product development lifecycle.

The role will include design and integration of embedded communications using Wi-Fi, cellular (3G/4G), Bluetooth and System on Module (SOM) chipsets. Knowledge of wireless communications, power & electromagnetic magnetic compatibility is essential.

Duties

- Analogue electronics design, based on prototypes conceived and developed in R&D, using System On Module (SOM) and other communications and embedded chipsets
- Create embedded hardware designs and test specifications, evaluate against requirements and undertake rigorous testing
- Work with SMEs from R&D to migrate prototype designs into marketable products
- Work with digital electronics and other design engineers to create hybrid PCB solutions to meet product specifications
- Ensure that product specifications are met, and that designs are compliant with appropriate approval standards, including EMC, safety & R&TTE
- Document designs according to established quality management systems, including all levels of functional and detailed design and appropriate test specifications, to achieve supportable, maintainable products from concept & design, through factory introduction and manufacturing, to end-of-life.
- Work with external suppliers and design resources where appropriate, to achieve product specifications
- Work with external test houses to meet necessary approval standards
- Contribute to product specifications and roadmaps
- Work to detailed project plans, reporting progress and managing risks accordingly

Skills/Qualifications:

- Bachelor's or Master's degree in electronic engineering or a related discipline
- At least 5 years post-graduate experience of analogue electronics design and development
- Experience in PCB layout and design, including analogue, digital and RF componentry
- Experience of communications based products for industrial and professional markets, ideally including cellular (3G/4G), Bluetooth, WiFi and GPS.
- Experience of FPGA, RF, power & hybrid electronics
- Experience of EMC, safety & R&TTE approvals
- Experience of the full product life-cycle, including design documentation, testing and product approvals
- Self-motivated and able to work independently against a project plan, but also able to work as part of a wider team with a diverse range of external stakeholders, taking the lead where appropriate
- Good organisational and time-management skills
- Ability to think creatively to overcome challenges, with an aptitude for continuous improvement
- Flexible, keen to learn and with a willingness to undertake a range of tasks
- Full clean driving licence
- UK Security clearance (SC), or eligible to apply

Reviewed By:		Date:	
Approved By:		Date:	
Last Updated By:	J Cross	Date:	May 19 th 2016