

Job Description



Role Title: Principal Systems Engineer

Reporting to: Chief Engineer – Systems Engineering

Role Purpose

As a member of the systems engineering team within Lorillion, you will be involved at all stages of the design and development process. You will liaise directly with a range of stakeholders to provide and deliver effective engineering solutions. Responsible for the inception, development, and release of electrical and electronic system designs, across a broad range of company projects, whilst also leading the test and integration activities when products and systems are realised.

Key Responsibilities

- Liaise with stakeholders to enable the elicitation of customer requirements.
- Analyse and define system features and attributes.
- Decompose regulations and standards into technical requirements.
- Conduct appropriate analysis (use cases, sequence diagrams, simulations, state machines etc.) for defining system behaviour and deriving functional requirements.
- Define Logical architectures to support the allocation of feature/functions.
- Analyse and define physical architecture and interfaces.
- Define component level requirements to define internal departments/external supplier technical deliverables.
- Support the system level fault response and reconfiguration activities.
- Support reliability and safety analysis (e.g. ITD, FMEA, FTA, HARA etc.)
- Use requirements management tools for capturing requirements at all levels and generating specification documents.
- Interface between software and hardware engineers to support system design.
- Perform or support the development of test plans and test cases.
- Work closely with suppliers to ensure that requirements, timescales, and costs targets are tracked and achieved.
- Perform or support verification and validation activities and feedback of results into the system design.
- Ensure project documentation is correctly managed, maintained and released in line with company processes and standards.
- Deliver engineering tasks in line with project milestones.
- Support the governance of requirements management processes, toolchain, and model ontology

Qualifications, Experience and Skills Required:

- A degree or similar qualification in an engineering discipline
- Relevant experience of system design and/or electrical/electronic engineering disciplines
- A sound understanding of engineering, physics and applied mathematics and their application to solving real world problems.

Preferred:

- Degree in systems engineering
- Familiarity with automotive spice and systems engineering processes from requirements validation, through to system verification.
- Experience of model-based requirements engineering

System or Knowledge

- Advanced capabilities in Microsoft Office & applications.
- Experience of Business Management Systems including ISO9001.
- Experience in Automotive Spice or similar waterfall development process'.
- Familiar with delivering projects to APQP requirements.

Personal Attributes

- Self-motivated, creative and an adaptive team player.
- Willingness to take on roles, responsibilities and challenges required to achieve company goals and objectives.
- Excellent problem solving and analytical skills.
- Able to prioritise and organise multiple projects, workloads, schedules, and tasks.
- Strong presentation, report writing and communication skills.
- Strong interpersonal skills are essential in this role

Location and Travel:

- You must be eligible to work in the UK and have no restrictions for world-wide travel.
- This role is based at our Head Office in the Midlands, with flexibility for remote working.
- Working hours are 0900 to 1700, including 30-minute paid break 5 days a week, however frequent travel is expected, and flexible working patterns are essential to the role.