

JOB TITLE: Software Engineer	LOCATION: Blandford
RESPONSIBLE TO: Team Leader / Manager	JOB DESCRIPTION REVIEWED April 2021
Role Summary/Objective <p>Telesoft Technologies specialises in digital telecommunications and cyber security. We develop high speed digital communications products built around in-house developed high-speed PCIe devices.</p> <p>Software Engineers are required to develop robust and reliable Software Components and Systems based upon agreed Requirements and Design Specifications to planned delivery timescales. Successful candidates can expect to be involved in full product development lifecycle from planning, development and testing through to maintenance.</p>	
Essential Functions <ol style="list-style-type: none"> 1. Understanding system requirements, translating these into a design and validating that the design implementation meets these requirements. 2. Developing code in line with the agreed design specifications within the guidelines of Software Development Processes. 3. Confirming, through planned and adequate Component Testing, that the component developed will meet the agreed system requirements. 4. Confirming, through system integration and system verification, that the system meets the agreed requirements. 5. Producing design documents for components being developed based upon agreed requirements, system design specifications and relevant standards specifications. 6. Organizing and attending design reviews to verify correctness of design. 7. Implementing designs in the relevant programming language such as C / C++ and scripting language such as Bash, Perl and Python. 8. Using software source code control systems in to manage software version control. 9. Produce unit test specifications, develop automated test harnesses, and run tests to validate achievement of agreed requirements in software components developed. 	

10. Assisting with system test definitions, test creation, test execution, debugging and problem resolution.
11. Promptly correcting any deficiencies against requirements identified either internally through Component or System Testing or externally by Customer.

Key Competencies

- Problem solving
- Effective Communication
- Eye for detail and identifying problems
- Analytical
- Commercial Awareness
- Collaborative
- Teamwork

Education, Skills and Experience

Essential

- Strong experience with C/C++
- Good understanding of software architectures and design principles.
- Ability to understand, apply and review processes to ensure they remain valid in meeting the objectives set.
- Ability to write design documentation and understand the use of message sequence charts and modelling languages (e.g., UML, SDL, etc.)
- Experience with Linux / UNIX systems
- Understanding of software test strategies

Desirable

- Understanding of data communications, networking, SCTP, TCP etc.
- Understanding of digital telecommunications, telecoms signaling protocols (e.g., GTP, SIP, TCAP, Diameter), etc.
- Understanding of syntax notations (e.g., ASN.1) and schemas (e.g., XML Schema, JSON Schema, etc.)
- Experience with SMP & multi-threaded applications development
- Experience with packet access frameworks such as DPDK
- Experience with scripting languages such as Python, Bash and Perl
- Experience with GIT SCM, Jenkins, JIRA
- Relevant engineering or computer science degree
- Agile / Scrum methodologies

Supervisory Responsibility

This position will provide guidance and support to junior members of the team such as graduates and apprentices.

Travel

Occasional UK and overseas travel may be required in accordance with business needs.

Work Authorisation / Security Clearance

You will be required to obtain security clearance.

Other Duties

Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this job. Duties, responsibilities, and activities may change at any time with or without notice.