

Skill Profile

Wireless Consultant

Role

To provide wireless terminal system engineering, programme and test consultancy to internal and external customers. This is a highly technical role for wireless experts, suiting anyone who likes to combine hands-on system engineering with client consulting and management.

Responsibilities

- Technical consultancy on wireless air interfaces and standards
- Requirements definition and management
- Definition of acceptance tests, system test plans, methodologies and requirements
- Debugging of detailed technical issues escalated on RF, protocol and/or interworking issues
- Test equipment specification and integration
- Programme and project management
- Contract and subcontract management, including customer progress reporting and liaison
- Account management
- Coaching and mentoring

Essential Skills and Experience

Experience in a minimum of three of the following fields:

- RF/L1 knowledge in one or more of the following: link budget analysis, antennas, radio architectures, mobile channel modelling and simulation, digital modems and algorithms
- Understanding of the OSI 7-layer stack model definition and operation as applied to one or more of the following air interface stacks: 2G / 2.5G / 3G / 3.5G (HSPA) / 4G (LTE) / Wi-Fi / WiMax / TETRA / Inmarsat / DVB-RCS
- Operation and capabilities of IP-based protocols and applications, including TCP/UDP, SIP, RTP/RCTP, VoIP, video streaming, FTP, Telnet
- Experience of conformance and/or interworking testing of wireless terminals, whether satellite, cellular or fixed
- Familiarity with spectrum analysers, power meters, signal generators and other RF equipment
- User and systems requirements analysis, specification and traceability of communication systems



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Desirable Skills and Experience

- Experience of programme or project management of mobile wireless terminal developments, whether satellite, cellular or fixed
- Experience of development and/or team leading in mobile wireless terminal projects, whether satellite, cellular or fixed, and in software, hardware and/or test roles
- C/C++, UML and OOD
- Scripting languages such as Perl, TCL/TcK, Python
- Developing test automation
- Applications development
- Delivery of training courses
- Software engineering standards and development lifecycle

Qualifications

Good university degree in Electronics Engineering, Physics, Maths or Computing.

Personal Profile

- Self-motivated and enthusiastic, able to drive activities forward with a focus on delivery to clients
- Continual desire to learn new technologies, tools and techniques
- Logical and methodical approach to task management and problem solving, with attention to detail in planning and execution
- Adaptable to new requirements and flexible to change
- Able to function effectively within a team and with other personnel at all levels throughout a customer organisation
- Equally important is an ability to work alone at times, taking initiative and responsibility for a task from start through to completion
- Able to advise and communicate with senior management, with presentation skills and manner to match
- Awareness of commercial and technical issues on a programme, with an ability to perform trade-offs and impact analyses
- Able to operate under pressure and with tight deadlines