

MAIN DUTIES FOR SYSTEM VALIDATION

- Performing review of system design, system requirements (functional and architectural) and hw schemes for safety critical systems;
- System validation, architectural and integration test design, execution and check.
- Performing testing activities in Laboratory and on site.
- HW and SW error investigation at different level.

ESSENTIAL SKILLS & EXPERIENCE

- Educated to Bachelor in Computer Science, Electrical Engineering, Computer Engineering or equivalent;
- Full lifecycle software development knowledge, from initial requirement gathering to design, coding, testing, documentation, implementation and integration;
- Knowledge of analog and digital electronics and electrical circuits;
- Knowledge in electronic measurement and using Laboratory instruments such as oscilloscope, multimeter, waveform generator etc.;
- Knowledge in real-time operating systems, embedded systems and C/C++ programming languages;
- Knowledge in system modelling tools;
- Experience in verification and validation testing for safety critical software on different phases of the V-cycle;
- Knowledge in using tools to support testing activities, requirements, issues and configuration management like IBM DOORS, RTC and RQM;
- Strong problem-solving and communication skills;
- Proactive communicator, comfortable dealing with stakeholders face-to-face;
- Ability to explain design decisions in a non-technical manner with clarity and detail;
- Well organised and a team player;
- Excellent attention to details;
- Fluent in Italian and English;
- Willing to travel.

DESIRABLE SKILLS & EXPERIENCE

- Experience in certified software development and validation for the Railway or Aerospace industry;
- Knowledge of railway standards CENELEC EN5016, EN50128; EN50129;
- Knowledge of On-Board System Engineering: SCMT, SSC BL3, ERTMS/ETCS ATP/ATC systems; Class-B National Systems integration;
- Knowledge in telecommunication (such as GSM, GPRS etc.) and networking (Ethernet, IP, TCP, UDP) technologies;
- Knowledge of Matlab, Simulink, Labview programming languages and NI or similar technologies;
- Previous experience working in the railway industries.