MAIN DUTIES

- Performing review of system and software design, system and software (requirements functional and architectural) and code for safety critical embedded systems;
- Develop software stubs and drivers to perform verification and validation testing for safety critical software on all development phases of the V-cycle in accordance with project schedules, processes and standards;
- Design, preparing and performing of software verification and validation test campaigns on different phases of the V-cycle.

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 in real-time operating systems, embedded systems and C/C++;
- Knowledge in system and software modelling tools.
- Knowledge in verification and validation testing for safety critical software on different phases of the V-cycle;
- Experience 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;

DESIRABLE SKILLS & EXPERIENCE

- Experience in certified software development and validation for the Railway or Aerospace industry;
- Knowledge of safety critical SW standard – CENELEC EN50128-2011, DO-178B/C and railway standards CENELEC EN5016, EN50129.
- On-Board System Engineering: SCMT, SSC BL3, ERTMS/ETCS ATP/ATC systems; Class-B National Systems integration
- Knowledge of ADA 83 and ADA 95 programming languages;
- Embedded Software Engineering experience;
- Previous experience working in the railway industries;
- Knowledge of ERTMS/ETCS On board System application;
- Willing to travel