**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