

Signaling Design Specialist

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Company: Morson Talent (Canada & USA)

Location: Toronto

Category: other-general

Location: North York, ON – Hybrid (2 days a week on-site)

Contract Duration: 12 months with a possibility of extension

Working Hours: Standard Office Hours (40 hours per week) Job Title: Signaling Design

Specialist – Senior Job Description:

General Mission:

To perform signalling design, analysis, modelling and simulation to specify communication based train control systems. To develop and define system design features to meet Customer requirements. To analyse and evaluate designs to verify compliance with system technical requirements. To develop and define Subsystems requirements. To develop block design, interlocking control tables, and application database for Software subsystems. To analyse and evaluate system performance and prepare associated technical contract deliverables. Key

Accountabilities:

TECHNICAL

Converts Customer (internal and/or external) requirements into conceptual designs and prepares associated documentation by performing operational analyses, simulations and technical trade-off studies evaluating alternative design configurations and functional features. Similarly creates new concepts or modifies existing concepts to fulfil customer requirements. Performs technical/engineering tasks to define, application databases for software subsystems. Analysis and simulations are performed as necessary to identify design feasibility & driving requirements.

Prepares specialised signalling design skills, covering one or more of the following:

Signalling Principles;

Block design;

Interlocking control tables;

Safe braking model;

Performance analysis and Headway simulations;

Application database design;

Prepare and supports bids and proposals, including customer requirements compliance assessment, gap analysis, architecture design, simulation, trade-off of key features, estimation, etc.

Presents technical design and reports to customers and/or other engineering/management groups in clear, complete, concise and non-ambiguous terms.

Defines or proposes updates of processes and standards covering the work and its products based on the knowledge of systems engineering and/or his technical speciality.

Operational design limits are evaluated and defined; performance analyses and simulations are developed & performed to support the above.

Ensure the signalling design is implemented in accordance with applicable standards and signaling principles.

Interface and build strong working relationships with Software, Hardware and IVVQ groups to ensure timely analysis and resolution of in-house and field test issue. Nice to have:

Supervises contractors and other systems specialists, by defining their work, coaching them on how and what to prepare, monitoring their progress and directing them on priorities.

Proposes work package estimates and descriptions based on the knowledge of the work and project requirements.

Prepare and deliver regular status reports for internal and external stakeholders

Identify and implement process improvement initiatives

Education: University degree in Computer sciences, Engineering or a closely related field.

Experience: Minimum 5+ years relevant experience in development of software-based System applications.

Technical/Specialized Knowledge: Strong application (automated train control systems) domain knowledge & knowledge of systems engineering principles and practices.

Knowledge of modern software engineering practices, methods and tools

Knowledge of systems development life cycle.

Excellent technical writing and communication skills. Good marketing and presentation

skills.Ability to sell/defend product to customers with differing levels of knowledge about automated systems.

Strong planning and organizational skills.

Experience in using DOORS, Melody advance, etc..

Rail Signaling knowledge (desirable).Certifications:

P. Eng license is desirable

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