



Spørsmål om stillingen

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Looking for a recent graduate or junior developer

We are looking for a software developer to contribute to the further development of our modeling and engineering tool for railways. This position is suitable for recent graduates or for you who have a few years of work experience.

We need good people to further develop and redevelop many algorithms and functions. In the position, you will have the opportunity to work with complex problems with a large degree of self-determination for how problems are solved.

RailCOMPLETE® is a plugin in the drawing program AutoCAD and is used by railway engineers to plan electrical engineering infrastructure ("gadgets along a track").

Responsibilities

Develop the RailCOMPLETE railway modeling program. This includes, among other things:

- Further development of the user interface
- Develop and apply algorithms to solve modeling problems
- Develop language interfaces for open exchange of railway information
- Develop tools for capacity assessment of a railway facility
- Further develop the training material / e-learning

Examples of possible issues:

- Given a geographical map of a railway network, how can one automatically produce a nice schematic drawing of the network? (The metro map in Oslo is an example of a schematic drawing)
- How to best represent the geometry of a railway?
- Given data from the measurement of centerline railway tracks, how to convert this information into track lines?
- The research results from 'RailCons', a mathematical PhD we have supported, must be industrialized

Qualifications

Requirements:

- MSc (Master of Science)
- Programming experience, for example with Python or Java

It is desirable with:

- Master's degree in mathematics or physics
- 0 - 5 years of work experience as a software developer
- To be able to refer to own programming projects

Personal characteristics

- Researching and imaginative
- Structured and independent
- Likes programming

Work tools

- Version control and issues with Github
- C # / .NET In Visual Studio for the main application RailCOMPLETE
- WPF and XAML are used in the user interface (menus, screenshots)
- Lua is used as an automation language inside RailCOMPLETE, such as Visual Basic in Excel
- RailCOMPLETE calls on AutoCAD API functions to handle drawings
- We use LISP to create graphics libraries, symbols for all the «railway items»
- Support tools / web / documentation using HTML / PHP / Azure + C # / LaTeX

We offer

We offer good and inspiring colleagues, a perpetual learning situation, flexible working hours, competitive salaries, and offers of participation in options and share programs.

Applications are processed continuously.

About us

We are engineers with mathematics, physics and computer science as a background. The general manager has 30 years of experience from the railway sector as a designer of signaling systems with an associated large network in Norway and abroad. We have had consulting companies as customers since 2017, and we got French SNCF as customers in 2019. We participate in international fairs and hold demos for railway environments all over the world. We participate in international standardization groups.

Vision

RailCOMPLETE includes everything the railway engineer needs in his daily work to create scale and schematic drawings, tables, 3D models, to parameterize railway objects, do capacity analysis, create animated train running, and exchange data with other applications.

RailCOMPLETE lives up to its name by being a complete tool for the track industry, substructure, overhead contact line, signaling system, telecom and low voltage system. RailCOMPLETE supports the common work needs of the engineer - all in one tool.

For AutoCAD, RailCOMPLETE is what Word and Excel are for Windows - the tool that enables users around the world to be productive and able to exchange data without losing information.

Our vision is that all relevant railway PCs in the world will use RailCOMPLETE or a compatible program by 2028.

Do you want to join our journey?