

Internship/Thesis - LiveCom Suite

Onboard Train Simulator

Description

At present:

Televic Rail has a LiveCom Suite Wayside webpage for the configuration of passenger information system across a fleet of trains. We see all the input data (e.g. playlists and their triggers) that are configured in a dossier. However, to see the actual output (trip-based event triggers and outputs based on that) we require a physical test bench with Displays, PCUs, etc.

Proposal:

In this newly created web-based simulator (like an online game), the user would see a virtual internal architecture of a driver's cabin in the train, as well as LiveDIS, LED-Displays, internal and external loudspeakers and Passenger Communication Units (Number of units and types would be configurable). This simulator allows a user to play with it and verify the programmed operation. Start a trip on the virtual train and simulate it to see the automatic outputs, play a special information, trigger a PCU and see the output in the virtual driver's cabin and on the PCU. Also, some additional features, such as triggering an emergency brake halts the train immediately and showcases the output on displays, driver's cabin according to the LiveCom Suite configuration. There would be a dedicated LiveCom Suite Wayside Webpage for this simulator, which has all the available functions a user can test and change according to their wish.

Benefit:

This allows Televic Rail to showcase this game during our Expos, customer demos, presentations, where our customer can play with the LiveCom Suite configuration and see the output via our virtual train. Also, such a simulator game would be a more interesting way to train customers, allowing a user to have hands-on experience of our product.

About Televic Rail

With over 30 years of experience in designing, manufacturing and maintaining on-board communication and control systems, Televic Rail is a leading, trusted partner for railway operators and train builders worldwide.

Its Passenger Information Systems and Control Systems are high quality, tailor-made solutions that offer the flexibility, user-friendliness and stability that our clients ask for. Our various types of on-board control systems such as our bogie monitoring systems are innovative, yet reliable products designed specifically for the railway business.

Trains and trams all around the world are equipped with Televic Rail solutions, from New Zealand to Canada, from China to the United States, from India to Belgium, England and France.

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Nature of the work

Level	Keywords	Type of work	Location	Num. of students
Bachelor, Master	AI / Machine Learning, Embedded Software, IT, Software	Research: 10% Implementation: 60% Experimentation: 30%	Televic, University	1 or 2