



Final Project

of

Ying Su

Systematic comparison of the capabilities of both Movisa and the visualization system ICONICS

Topic:

Visualization systems in industrial automation provide both a powerful engineering environment and a proprietary runtime environment. Visualization solutions developed with one of these systems require that particular runtime environment for execution. As these runtime environments require specific execution platforms, a visualization solution possibly has to be redeveloped if the deployment to different platforms is required, although in case of the same functionality.

Movisa is a Domain Specific Language (DSL) fostering sustainability of Visualization Solutions by capturing only functional contents of these solutions through models. The technical realization to be executed on a specific platform can be obtained by transformation.

As the Metamodel of Movisa has been designed by analyzing conventional visualization systems as well as used visualization solutions, the aim of this project is to consolidate the Movisa approach by comparing it with the off-the-shelf product ICONICS. Therefore, a visualization solution has to be designed for a laboratory plant with both tools. According to comparison criteria to be defined, the capabilities of the components of both tools have to be compared.

Following specific requirements have to be met:

- Definition of criteria for comparison.
- Design of a visualization solution for a laboratory plant.
- Implementation of this visualization solution with both tools, Movisa and ICONICS.
- Systematic comparison of the capabilities of the components provided by both tools.
- Discussion of the results.

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Supervisor:
Working period:

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