SUPER – Stuttgart University Program for Experiencing Research Project Information

Institute's Information

Name of Institute	Institute for Engineering Design and Industrial Design
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Duration of Project/Number of Students

June/July	1
June/July/August	0
Number of Students	Up to 2

Name of Project	Use case-specific creation of an ontological data model to increase data consistency between development and production in the product, process and resource context

Beneficial Skills & Knowledge	Semantic Net, Data management, work planning structures

Description of Work

In this project, based on preliminary work, an ontological data model is to be developed for a use case from the commercial vehicle industry, which includes product, process and resource (PPR) data. The aim is to create a semantic link between the respective information objects and thereby achieve greater consistency in this use case. The generated model is then to be filled with real-world data. At the end of the project, a graphical user interface is also to be created that enables the generation of different views (depending on the use case) of the data model. Possible application scenarios include the virtual safeguarding of assembly processes, worker guidance or the control of automated tools in a production system.