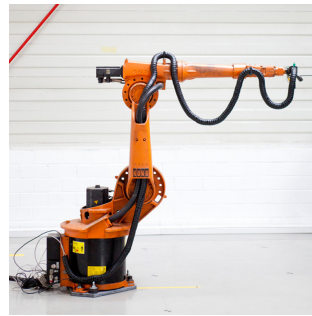


Bachelor thesis, project thesis

Systematic collection and formalization of input data

To lower the barriers to the implementation of AGVs in SMEs, the FTS-Ready project aims to develop a method based on a maturity model. The maturity model assesses, based on the existing infrastructure, the extent to which SMEs meet the requirements for implementing AGVs and identifies any measures that need to be implemented beforehand. Furthermore, the method includes a decision-support tool designed to propose a vendor-neutral AGV solution based on given logistical requirements. The entire method is implemented in a software demonstrator.



Your tasks

- Structured research into relevant standards, guidelines, and technical literature on the planning, implementation, and operational requirements of AGVs
- Delimitation and classification of relevant information categories, e.g., use case, cargo
- Identification and determination of specific input variables, including definition, source, data type, unit, and possible values
- Conversion of input variables into understandable questions and answer formats for users without expertise in FTS
- Description of dependencies, required fields, optional fields, and simple plausibility checks between the input variables, and conversion into a machine-processable format (e.g., as a table or JSON schema)
- Application and qualitative review of the developed input catalog based on defined AGV application scenarios with regard to completeness, unambiguity, and clarity

Your profile

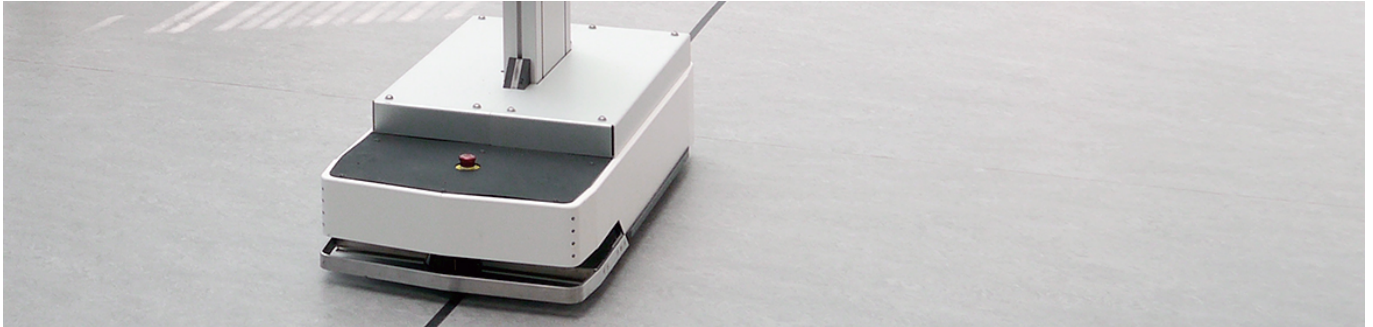
You are studying one of the following subjects:

- Mechanical Engineering
- Mechatronics
- Industrial Engineering
- Sustainable Engineering
- Production and Logistics
- or a related field

You are interested in automation, data, etc., and are able to come up with good solutions on your own. Some experience with data analysis and software development is a plus. Good written and spoken German or English skills are required for the job.

We offer

- Independent work
- Flexible work hours
- Well-equipped workstations
- Work from home by arrangement
- Conducting experiments
- Long-term collaboration, if applicable



Bitte sende deine aussagekräftige Bewerbung in einer einzigen PDF-Datei an jobs@iph-hannover.de.

Die Bewerbung muss Anschreiben, Lebenslauf sowie Prüfungsleistungen des Studiums / Zeugnisse enthalten.

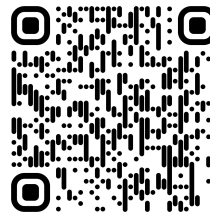
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