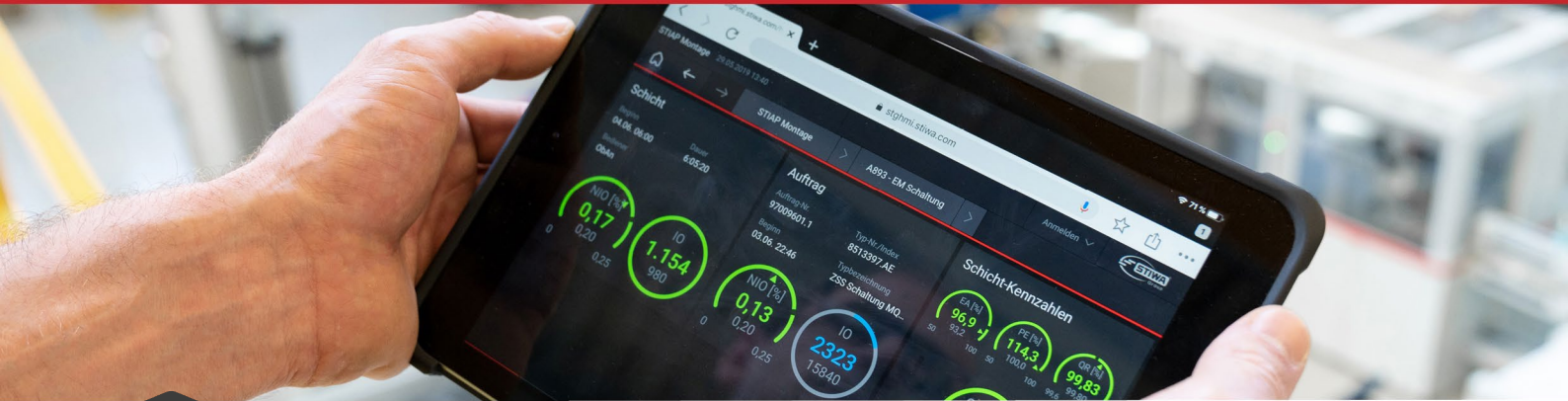


Cross-compiling of PLC programs



Master's thesis

Our goal is the profound mastery of the system and the processes in the networked product- and high performance automation, the intelligent building automation and in preanalytical processes in the laboratory. With over 150 software employees and 30 years of experience, we inspire customers from a wide range of industries – worldwide.

Motivation

Industrial automation is at the heart of modern production processes, and programmable controllers are indispensable. In view of the diversity of PLC systems such as Beckhoff, Siemens and Bosch, the industry faces the challenge of ensuring cross-platform development and maintenance of control software. This master's thesis has the major goal of significantly increasing efficiency and flexibility in software development by researching and implementing cross-platform cross-compiling. This will not only reduce development effort and costs, but also drive forward the standardization and simplification of development processes. It offers the opportunity to work on a groundbreaking solution that will take the automation industry to a new level and have a lasting impact on the future of industrial software development.

Goal / tasks

- Development of concepts and methods for cross-compiling between different PLC systems
- Creation of a cross-platform system to reduce the number of specific compilers and development environments
- Testing of the developed concepts and prototypes on various PLC systems in general as well as for Beckhoff, Siemens and Bosch
- Evaluation of the effectiveness, efficiency and robustness of the developed solution

PLEASE CONTACT US

Please send us your complete application documents:

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