

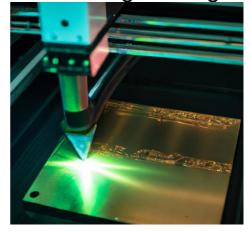
Implementation of a System Architecture for Edge Computing in Production Engineering

Initial situation

The Tramik project is conducting research into the development of resource-efficient production chains. The virtual representation of such production chains and the systems they contain play a decisive role. Edge computing solutions help to efficiently integrate sensor data into the virtual production chain.

Task description

Within the scope of this study, a system architecture for a flexible edge computing solution for the visualization of different sensor data shall be developed. Possible disturbance variables for the operation are to be determined and the resilience of the system is to be validated using a demonstrator consisting of an ultra-short pulsed laser system and a photodiode sensor



Prerequisites

- Interest in Edge Computing
- Programming skills
- Interest in Laser Technologies
- Independent, conscious way of working

Contact

M. Sc. Pawel GarkushaDepartment Laser Technologies

Tel.: 089 / 289 15537

Pawel.Garkusha@iwb.mw.tum.de