

Tuesday, February 15, 2022

MESCO implements generic robot interfaces

MESCO Engineering supports robot manufacturers in the hardware and software implementation of generic control interfaces

Modern controls simplify the programming of robots and motion controllers with smart tooling. In order to be able to use these functions consistently, i.e. across controls and depending on each other, the respective robot controller must support this generic interface.

MESCO supports robot manufacturers in the Hardware / Software realization of these specific, generic interfaces, standard-compliant and safe.

The Siemens TIA Portal provides access to connected robotics controllers. This results in a continuous integration and a logical unit, as required by machine and plant manufacturers.

The robotics and motion control functions of the controllers simplify the consistent programming, commissioning and diagnosis of motion control functions and can control and monitor the kinematics of several interpolating axes. Thus, robots can be set up and operated in the controllers *across manufacturers*.

However, in order to be able to use these comfort functions *manufacturer-independent* and generically, the support of the commands from the robot itself is required. The commands coming from the control system (in the form of PROFINET telegrams or profiles) must be translated bi-directionally to the manufacturer-specific robot commands.

This middleware serves as a gateway between the machine control and the robotics controller as well as other peripheral elements, such as teach panels and axes.

As a development specialist, MESCO Engineering implements these specific robot interfaces in hardware and software for real-time Ethernet-based industrial communication interfaces of automation components – from concept to conformity confirmation. In addition to the pure interface functions, this also includes profile integration for motion control and robotics, as well as a variety of gateway functions.

More information on: www.mesco-engineering.com

MESCO services at a glance

- HW / SW Development of Industrial Ethernet interfaces for automation components (PROFINET / PROFI-safe / EtherCAT / FSoE / IO-Link / IO-Link Safety)
- Support of the standard Robot Command Interface for uniform communication in robotics; Support of the SIMATIC Robot Library
- Development of functional safety electronics for motion controllers and robotics (SIL2 / SIL3 according to IEC 61508/ EN ISO 13849, as well as EN ISO 10218)

Tuesday, February 15, 2022



MESCO implements generic robot interfaces for simplified engineering in the TIA Portal

Meta-Description: Standard Robot command interface

Keywords: PROFINET, EtherCAT, PROFIsafe, FSoE, Robot, interface, Hardware Software development, generic robot interfaces

Characters (incl. spaces): 2476

MESCO Engineering is your partner for innovative electronics development for products in the field of process automation and factory automation. Our core competence is the development of hardware and software. The combination of the technical fields of industrial communication, functional safety and explosion protection is our strength. Since 1990 we are offering to our customers – worldwide – up-to-date interbranch know-how, integrated solutions and a comprehensive service. Here an honest, transparent and partnership-like cooperation comes first.

Tuesday, February 15, 2022

MESCO Engineering GmbH

Berner Weg 7, 79539 Lörrach, Germany

Tel. +49 7621 1575 0

Fax +49 7621 1575 175

info@mesco-engineering.com

www.mesco-engineering.com

Sales:

Peter.Bernhardt@mesco-erengineering.com

Press contact:

Marketing

Tel. +49 7621 1575-432

Elke.Fischer@mesco.de