trinity

REMOTE CONTROL FOR INDUSTRIAL ROBOT **PRODUCTION MANAGER VERSION**







Objective of the training

- In the training lecture, you will learn and get insight into how multiple robots can be programmed through one simple interface in a general and Industry 4.0.
- for robot control.

Internet browser such as Chrome. This is a crucial part of digitalization

• The training material will also show how to set up a simple user interface





1. Module component

- This module offers a robot controlling method through industrial internet of things (IIoT) by using an information server. A graphical user interface (GUI) takes input from the robot operator and the operator is able to program or move robots remotely
- Remote control and monitoring are usually needed in the modern industrial 4.0 factory. The module demonstrated how to control the industrial system with a platform independent interface.







2. Module environmental requirements

direct control of the robots and collect/monitor data from the robots.

• The module requires one server PC (can be the same one for the industrial information server) for hosting the GUI server.

• The module requires the industrial information server (e.g., OPC-UA) for communication with the robots. The information server can be used for





3. How to integrate this system with the rest of the production line

- flexible GUI for the industrial system.
- Robots usually have their own robot controller, and it can be time independent GUI can be a general system that supports multiple re-programming of the robots and reduce changeover time between productions.

 The module is the addon function for previous modules. As long as the industrial information server running as expected, the module offers

consuming to re-program robots with these controllers. The platform industrial machine types from different vendors. This can allow for fast





4. Adaptability

other machines.

- The major changes for integration of the system:
 - (Extra controller for each of industrial devices may need)
 - Install the GUI server.

This module can be used in production environments with robot arms or

Connect all industrial devices to the network with a central network server.





Thank you.

If you are interested in more tutorials on this module or other use cases, please follow the links in the use case lectures.









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