

Selmo

EXARON GmbH

With simulations and
automated PLC
programming to success

About EXARON

The company's mission is to enhance the economic success and sustainability of companies in the secondary sector. This is achieved through the innovative combination of three-dimensional simulation solutions with industrial immersive technologies.

Services

New plant

Industry

Automation industry

Location

Graz, AUT



In a digitized world, simulations and automatic PLC programming are crucial for the efficient design of processes. Learn more about how this collaboration opens up new perspectives and opportunities for industrial enterprises.

Advantages

01

Accelerated
commissioning

02

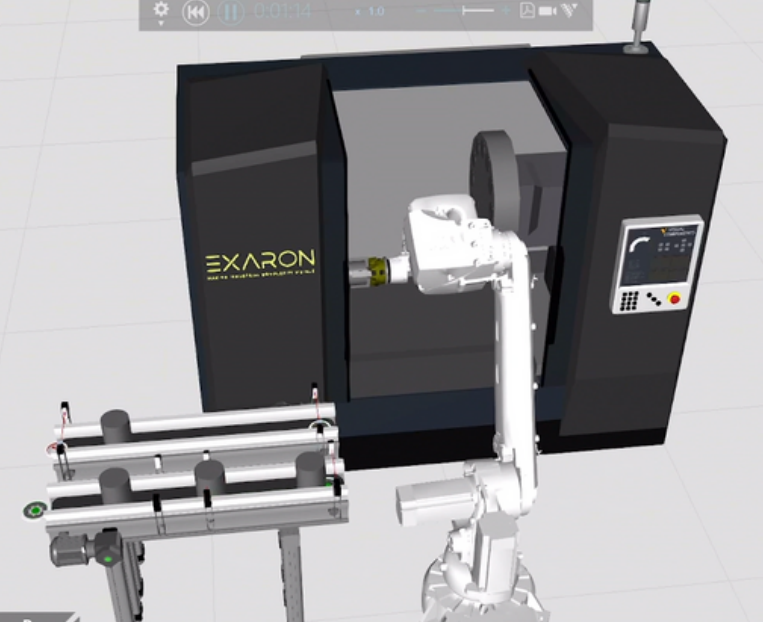
Virtual simulating
& testing

03

Conservation of
resources

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EXARON

MAKING INDUSTRIAL COMPLEXITY VISIBLE

Project scope

- Modeling effort: approximately 30 minutes
- 1 hardware zone
- 3 sequences
- 28 steps
- 32 zones
- 3 constantly monitored zones
- 2079 lines of code
- Headcount: 1 person

Project timeline

- The simulation was implemented in Visual Components by EXARON.
- Virtual commissioning took place in a workshop to integrate the simulation with the actual PLC.
- The task was to replace the scripts of the simulation with the real PLC program.

The challenge was that the results of the simulations could not be directly translated into the programming logic. Despite defining optimal processes, the complete PLC code was lacking in the end. Against this backdrop, the goal was to seamlessly integrate the insights gained from the simulations into the real programming, thereby automating the CNC machining station with the input and output conveyor system.

The consistent application of Selmo's technology enables EXARON to immediately provide their customers with a basic logic or, in the best case, a complete programming code through simulations.

This efficient and sustainable approach provides companies with the opportunity to relieve their own personnel and achieve a faster transition to the commissioning phase.