



## **MOLNÁR, Zsolt**

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### **Designing a flexibly applicable control system**

As an R&D centered educational facility, the Mechatronics Department at University of Debrecen hosts various industry related student developments. Therefore, a network connected control system was developed in order to interconnect and monitor the developed devices.

With the use of wireless technology, the devices equipped with the developed control modules are able to connect to a central computer. With a touch-enabled HMI, the users can redefine the connections and behavior of the controlled devices. Based on Industry 4.0 concepts, the connected devices can be remote controlled and monitored, including malfunctioning events notification. My presentation details the control system and demonstrates its use in a video.

*Zsolt Molnár, received my BSc in mechatronics, during which I participated at national and international conferences and designed a network connected CNC machine as thesis project. During my MSc years I also acquired a Quality control engineer and a Lean engineer degree. As a PhD student, I'm working on a new Industry 4.0 compatible control system, which can be applied for existing and new equipment with the same ease.*

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