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### **Modernization of a PVD machine control system**

PVD (Physical Vapor Deposition) is a well-known method preparing thin layers. This method is basically used in optical applications like thin layer coating of mirrors and lens. Importance is also continuously increasing in nanotechnology. Principle and realization have not been changed in the last decades but the measurement and control systems have been developed in parallel with new technologies. In this project we present modernization of the control system of a Balzers BA-510 PVD machine by Beckhoff PLC. Process control, data visualization and configuration management are supported by graphical user interface.

*János Orbán is an electronic engineer working more than 10 years in research at KFKI. Main research areas are neutron detection, neutron beam optics, nuclear measurement systems and control systems for large scale research infrastructures.*

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