

Digital Technology Poland (DTP Ltd.)

Press Release, Hannover Messe 2017 industry trade fair

Digital Technology Poland specializes in hardware and software design and development.

For several years we have been working for 3 large German companies: Rittal, EPLAN and HARTING, being the development partner in R&D around the Industry 4.0 initiative.

Digital Technology Poland presents at Hannover Messe 3 main innovations that have been developed in cooperation with these companies.

The first – EPLAN Smart Wiring - made in cooperation with EPLAN, serves to improve the process of control cabinet wiring.

Instead of dozens of paper documentation, we have it 100% digital - an interactive computer system that tells the technician step by step how, where and what to mount. The system reduces the wiring time by as much as 40%. This product is sold in 18 countries worldwide.

Two months ago we finished working on the world's first, patented by us, automatic Wire Label Reader device, which we created for Rittal. It allows for further improvement of the Smart Wiring manufacturing process.

The implementation of this reader was a big technical challenge - we used very advanced IT technologies - machine learning, image recognition, so-called Deep Neural Networks and radial search.

The third product is MICA Energy. This is the latest version of HARTING MICA, the smallest IP67 industrial microcomputer that won the Hermes Award last year in Hanover. In cooperation with HARTING engineers, we have designed both hardware and software. The MICA microcomputer allows to customize the network and devices to the Industry 4.0 requirements and to use older machines in the Smart Factory. MICA Energy manages the measurement of over 200 devices.

Recent work by Digital Technology Poland is focused around tools for Augmented Reality. Examples include Microsoft HoloLens glasses that allow to add virtual objects to the seen reality. DTP creates innovative human-machine interfaces: virtual control panels and dashboards, special virtual indicators, and virtual objects of the real ones.

MICA Energy graphs are now right in front of user's eyes and MICA is controlled with gestures.

The operator moving his eyes from one device to the other, sees all the needed data from this specific machine being viewed.

For EPLAN, we have moved the entire EPLAN Smart Wiring program into the virtual world and show the technician everything in front of his eyes with special virtual arrows and pointers visible through the glasses.

For Rittal we create revolutionary virtual prototypes of control cabinets.



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