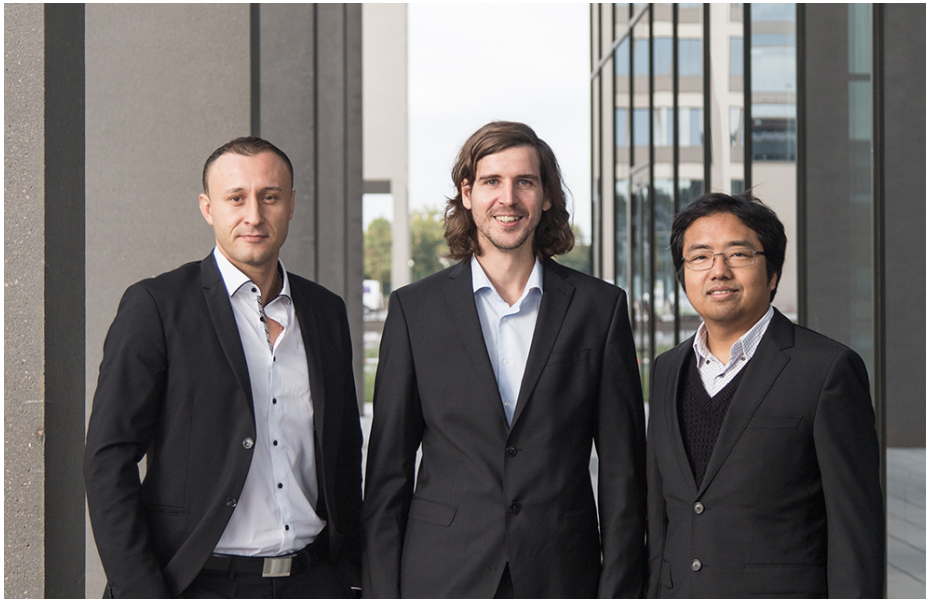


## Start-up develops alternative to RFID



### Auf einen Blick

- ☑ IMPT staff members founded start-up with EXIST funding
- ☑ Magnetic storage technology as alternative to RFID tags
- ☑ Assets in industrial application: flexible, low-cost, resistant

15. 2019

**IMPT | From research to industry: With the "Magnetic Information Platform", three researchers of the Institute of Micro Production Technology (IMPT) founded their own company, which is sponsored with about 725,000 euros from the EXIST programme.**

With the "Magnetic Information Platform" (MIP), the researchers at IMPT have developed a storage technology which is competing with established RFID technology. The MIP system consists of a magnetic write head, a magnetic read head and a flexible, thin magnetic tape as storage medium.

In the Collaborative Research Centre "Gentelligent Components" (CRC653), magnetic storage technology has been investigated in detail. Now, Mathias Rechel, Piriya Taptimthong and Lev Savkun of IMPT want to introduce their technology to industrial applications.

Currently, the researchers are focusing on a specific field of application: the identification of tool holders. Larger holders are typically labelled with RFID tags, which are embedded in slots in the shaft. This is not possible with smaller tool holders, because a slot would affect stability and true running accuracy. With MIP, it's a different thing: Here, an ultra-thin magnetic tape is attached around the holder serving for data storage. Another asset: The magnetic strip is resistant to contamination.

*by Susann Reichert*

E-Mail: [rechel@impt.uni-hannover.de](mailto:rechel@impt.uni-hannover.de)  
Tel.: +49 (0)511 762-18024  
Webseite: <http://www.mip-magtech.de/english>