

BARCAMP Proposal

Titel | Thema

(max. 80 Zeichen)

Towards virtual Manufacturing using AR/VR & IOT for the Operator 4.0

Motivation

(max. 1000 Zeichen)

Virtual manufacturing has resurfaced and become the time of the hour - when entire production industries had to halt due to an unexpected pandemic. Is a complete "virtual manufacturing" even possible? How can the operator stay super-informed in these environments and make timely decisions? Augmented Reality & IOT offers the opportunity to provide real-time information in an inobtrusive way, promising travel and cost-savings. An Operator wearing a set of smart glasses or holding a tablet receives individualized, real-time information about production order and status. His augmented experience motivates him to absorb information, reduces his need to be physically present. Real-time sensor data make his information accurate. Digital twins enrich his visual experience, so his understanding of production processes is deepened. Maintenance instructions on augmented reality make his life easy, in performing expensive repair procedures. With practical demonstrations and use cases, we visualize the future with demos of AR/VR with industrial applications using IOT technologies.

Beitragende

Dr. Anuja Hariharan, Scientist, Future Labs, CAS Software AG, Karlsruhe

Art des Beitrags

Vortrag Workshop Diskussion **Level** Einsteiger Experten

