

MIC 2022



ModuleWorks

Get There Faster.



Introducing Digital Factory

Mark Foti, Head of Technology – Digital Factory

Agenda

- What is Digital Factory?
- Digital Factory – Our Mission
- Our Product Portfolio
- Today's Guest Presenters

The
Future is
now.

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What is Digital Factory?

- A dedicated business area at ModuleWorks focusing on addressing the current and future **requirements** as well as **potentials** of **CNC control makers** as well as **machine tool builders**



Fabian Tarara
Head of Business Development
- Digital Factory -



Mark Foti
Head of Technology
- Digital Factory -

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Our Mission

- Our **goal** is to create **digital solutions** that improve **machine productivity**, increase **process stability** and **reduce** operational / training **costs**
- We see the following market requirements:
 - **Supporting the Innovation Pipeline**
 - Industry 4.0+ / IIoT
 - Edge Applications / Connectivity
 - **Helping finding solutions to challenges**
 - Reducing time-to-market to address global supply chain issues
 - Lack of skilled operators / machinists





Our Mission

- **How can we improve machine productivity?**
 - **Next Generation Shopfloor Programming**
 - Complex 3D part programming made easy, directly on the machine
 - **Toolpath cycles on the CNC**
 - Advanced functionality such as adaptive roughing and turning available directly on the CNC





Our Mission

- **How can we increase process stability?**
 - **Real-time Collision Avoidance**
 - By simulating the future, we can accurately predict and thus avoid collisions. Directly connected to the CNC
 - **Simulation on the Control**
 - WYSIWYG
 - Enabling true Digital Twins





Our Mission

- **How can we reduce operational and training costs?**
 - **Visual Twin**
 - Make training of new operators scalable, fun and realistic by using true-to-life digital twins: „Serious Games“



Simulation Footage by ModuleWorks Visual Twin



Our Guest Presenters

- **Mitsubishi:** Simulation on the CNC
 - Presenters: Matteo Giugno, Jan Gesthuysen
- **FANUC:** Efficiency in Manufacturing supported by FANUC
 - Presenter: Dr. Wilfried Steiger
- **Siemens:** Digital Twin from Machine Manufacturer to Machine User
 - Presenter: Johann Dietrich
- **DMG:** DMG MORI DigitalTwin
 - Presenter: Dr. Daniel Niederwestberg





Thank you
for your attention



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www.moduleworks.com
info@moduleworks.com

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