

TECHNIKUM

- 09:00 **Opening TECHDAYS –**
Featuring Fuchs & Hahn
- 09:10 Keynote Speech
From Solution Seekers to Problem Finders –
How Innovation is changing in the Digital Age
Pranjal Hedge, Deloitte Digital Ventures
- TRACK: Digital Identities and Authentication**
- 09:30 Impulse: **Managing Identities in the Internet-of-Things**
Volker Gerstenberger, Giesecke+Devrient
- 09:40 Impulse: **Secure Digital Identities**
Dr. Jan Carmenisch, IBM Switzerland
- 09:50 Impulse: **Current Problems and State of the Art Biometric Approach**
Ho Chang, Bio ID
- 10:00 Impulse: **Biometrics – Authentication in the World of Digitization**
Thomas Bengs, Fujitsu
- 10:10 **PANEL: Biometric Authentication finally arriving?**
Prof. Ulrike Lechner (University of the Armed Forces Munich),
Thomas Bengs (Fujitsu),
Dr. Jan Carmenisch (IBM), Dennis Joanidis (onegini),
Dr. Hermann Sterzinger (Veridos)
Moderator: Dr. Gisela Meister (Giesecke+Devrient)
- 10:55 **Snippet – Featuring Fuchs & Hahn**
- 11:00 BREAK
- TRACK: Internet of Things: Critical Applications and Use Cases**
- 11:10 Impulse: **Winning the Platform Race in the Industrial Internet of Things**
Martin Lüers, Roland Berger
- 11:20 Impulse: **SigFox – LPWAN to connect the World**
Aurelius Wosylus, SigFox

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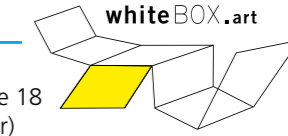
Main Floor / Workshop Zone (Stage)

- 08:30 Registration
- 08:30-18:00 Tech-Exhibition/Demos
- 08:30-18:00 Digital Art at White Box Lounge
- 10:00-18:00 LEGO Programming Area
Learn in a playful way coding with Lego tools
- TechPitches 1st Round**
Center Floor
- 09:30 Felix Brombacher, Crashtest Security
09:34 Johannes Gloßner, Soley
09:38 Hermann Geupel, Rubean
09:42 Jan Veira, University4Industry
09:46 Claus Lenz, Cognition Factory
09:50 Veronika Traublinger, UnternehmerTUM
09:54 Oliver Leymeyer CyberRiskAgency
09:58 Felix Pröhl, LetsGo
10:02 Oliver Häusler, Werksrevolution
10:06 Raoul Alexie, TRANScurity
- 10:15 - 10:45 Workshop: **The insightful Factory**
The Future of Manufacturing
Retrofitting factories for smart manufacturing
Setting up connected industrial eco systems
Norman Weiß, ME Industries
- 10:45-11:00 Use Case: **Smart Manufacturing**
Big Data maintain 300 Laser Machines
Dirk Thielker, Axoom Solutions
- 11:00-11:15 **Live Performance YPL**
Tonhalle Center Floor
- 11:15-11:45 Project yourself: Interactive Art Experience
Center Floor
- 11:15-11:50 **Live Hacking** (in German)
Workshop Stage
Marco Di Filippo, Cyber Security Evangelist, whitelishackers

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Project and Hacking Zones (upstairs)

- 8:30-18:00 Project Gallery:
Visit Project Gallery to learn about ongoing innovation projects between research and business partners
Exhibits include the following projects
IUNO, secUnity, Trusted Connector, IDS
- Hacking Sessions at Hacking Zone (upstairs)**
- Live Hacking and Social engineering**
12:00-12:45 Ralf Reinhardt, sic[!]sec
14:30-15:15 Ralf Reinhardt, sic[!]sec
16:00-16:45 Ralf Reinhardt, sic[!]sec
- PROJECT PRESENTATIONS at Project Zone (upstairs)**
- 10:30-10:45 Forum
The 7 Deadly Sins of IT-Security
Erwin Pfuhrer, SayTEC
- 10:45-11:00 Project Industrial Data Space IDS
IDS-Digital Sovereignty over Data and Services
Dr. Johannes Luyken, Fraunhofer Gesellschaft
- BREAK
- 11:15-11:25 Presentation White Paper: Security for I4.0
The WG "Secure Industry 4.0" – What's in it for you?
Security Requirements for Production Systems
Dr. Thomas Trägler, Software Factory
- 11:25-11:40 Project Presentation
Development of an Assistant System using Augmented Reality
Ruben Schlagowski, Fraunhofer IGCV
- 11:40-11:55 Use Case Multi-Factor Authentication
Securing customer and consumer portals with tokenless Multifactor Authentication
Fabian Guter, SecurEnvoy



Atelierstrasse 18
(second floor)

- 10:15-11:00 Workshop Information Security
Information Security – Effective and Feasible
Best Practice to manage and operate information security in the industry. Legal, regulatory, industry specific requirements and increasing number of cybersecurity attacks force enterprises to increase their level of information security. The workshop addresses different standards and methods to achieve an adequate level of information security and advises to prevent, defend and react on security incidents in daily operations.
Dr. Dina Bartels, Senior Consultant, ESG Consulting
Jamie Wilkie, Senior Director, Enterprise and Cyber Security, Fujitsu
- BREAK
- 11:15-12:45
IHK RoundTable Cyber Security (in German)
Offener Praxis- und Erfahrungsaustausch
Gespräch und Austausch zu relevanten Fragen der täglichen Praxis und Arbeitswelt, Cyberrisiken und Abwehrmaßnahmen mit Impulsvortrag (Sebastian Rohr, accessec) zu IT Sicherheit mit Bezug zur digitalen Transformation von Unternehmen als disruptiver Herausforderung.
Sebastian Rohr, Geschäftsführer der accessec
Oliver Lehmeier, Gründer der Cyber Risk Agency
Adrian Lambeck, Gründer der Project Security Firma ALPS
Moderator: Bernhard Kux, IHK München & Oberbayern

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- 11:30 Use Case: **Secure Low Power Wide Area IoT**
Dr. Stephan Spitz, Giesecke+Devrient
- 11:45 Project: **Smarter Together – Urban Infrastructure as a Basis for IoT**
Wolfgang Glock, City of Munich (LHM)
- 12:00 Use Case: **Critical Infrastructures of a Large City: Smart Metering for Munich**
Paul Nash, Utilities Munich (SWM)
- 12:15 Use Case: **OPC UA & Azure Connected Factory**
Oliver Niedung, Principal Solution Specialist, Microsoft IoT
- SPECIAL TOPIC: Digital Intelligence – Industry and Research Insights**
- 12:30 Impulse: **Innovation Intelligence for the Digital Age**
Dr. Florian Wolf, Founder and CEO, Mergeflow
- 12:40 Project: **Disruptions from Engineering Valley**
Dr. Rupert Deger, CIO, e-go-mobile

13:00 LUNCH BREAK

- 14:00 **Opening Afternoon Session – Featuring Fuchs & Hahn**
TRACK: Smart Manufacturing
- 14:05 Keynote: **Factory Transformation Journey**
Robert Leindl, CIO, Infineon
- 14:20 Impulse: **Smart connected Operations – Next step in intelligent Manufacturing Systems**
Dr. Andreas Gallasch, CEO, Software Factory
- 14:30 Impulse: **Mind Sphere-the open IoT Operating System**
Claus Cremer, Siemens
- 14:40 Impulse: **Assisted Reality in Industry and Trade**
Lars Vogel, T-Systems
- 14:50 Impulse: **Predictive Maintenance**
Frank Hertling, PreCognize

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Main Floor / Workshop Zone (Stage)

- 11:50-12:15 Workshop Digital Production
Digital Manufacturing in the context of Industrial IoT
Hands on Introduction to Machine Learning, Augmented Reality and IoT for Production
Dr. Andreas Gallasch, CEO, Software Factory
- TechPitches 2nd Round**
Center Floor
- 12:15 Benno Rott, Virality
- 12:19 Jonas Voigts, Smart Mobile Labs
- 12:23 Sandra Wenglein, knooing
- 12:27 Jasper Todte, ProGlove
- 12:31 Johannes Judt, everybag
- 12:35 Filippo Ledi, Holo-Light
- 12:39 Maximilian Nakladai, Kinexon
- 12:43 Masanori Fujita, docoyo
- 12:47 Dr. Florian Petit, Blickfeld

LUNCH BREAK

- 14:30-15:00 Workshop zu Azure IoT
- B2B Wearables for IoT Scenarios
- Secure Device Connectivity & Advanced Analytics
Oliver Niedung, Principal Solution Specialist, Microsoft

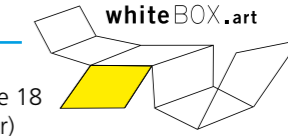
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Project and Hacking Zones (upstairs)

- 12:00-12:15 Demonstration
Next Generation Online Learning for Industry Partners
Jan Veira, Founder and Managing Director, University4Industry
- 12:15-12:30 Project Mobility Lab
Big Data for Adaptive, connected Mobility Services
Prof. Christian Prehofer, Technical University Munich
- 12:30-12:45 Project IoT
IoT Use Case
Ulrich Heitmann, Cirrantic
- 12:45-13:00 **Presentation of "CyberRiskRadar"**
Oliver Lehmeyer, CyberRiskAgency

LUNCH BREAK

- 14:45-14:55 Presentation
A framework for Secure Cloud Applications
Dr. Christian Roth, Transaction Software
- 14:55-15:05 Presentation
Using professional social networks in a secure way
Dr. Markus Rothmeyer, maxxel software
- 15:05-15:20 Presentation
Customer focused development of digital products: Best Practices and presentation of Digital Product School
Adrian Abele, UnternehmerTUM
- 15:20-15:35 Presentation
AI on the rise – this time it's different: How to approach AI from an industrial and ecosystem perspective.
Alexander Waldmann, UnternehmerTUM



Atelierstrasse 18
(second floor)

- 12:45-13:00 Hacking Session
Marco Di Filippo, Cyber Security Evangelist, whitelishackers

LUNCH BREAK

- 14:30-16:45
Symposium on Post-Quantum-Cryptography
Moderator: *Dr. Ullrich Martini, Giesecke+Devrient*
- 14:35 **From Classic to Quantum Cryptography**
Benjamin Tams, Secunet
- 14:55 **Quantum Key Distribution**
Prof. Harald Weinfurter, Ludwig Maximilians University Munich
- 15:15 **LARA - A Design Approach for Lattice-based Encryption**
Dr. Rachid El Bansarkhani, Technical University Darmstadt
- 15:35 BREAK
- 16:00 **Post Quantum Crypto for IoT Devices Motivation and Experience from Implementation**
Johanna Sepulveda, Technical University Munich
- 16:20 **Counter measures in the age of quantum computing**
Dr. Thomas Pöppelmann, Infineon
- 16:40 **Summary and Conclusion**
Dr. Ullrich Martini, Giesecke+Devrient

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- 15:00 **PANEL: Smart Manufacturing – Where do we stand? Drivers and Barriers**
Dr. Detlef Houdeau (Infineon), Prof. Dr. Dieter Wegener (Siemens), Dr. Olaf Sauer (FhG IOSB), Lars Vogel (T-Systems), Moderator: Sebastian Rohr (accesssec)
- Snippet – Featuring Fuchs & Hahn**
- SPECIAL TOPIC: Future of Work**
- 15:50 **Impulse: Future of Work- Work of the Future**
Thomas Sattelberger (former HR Director Deutsche Telekom)
- 16:00 **PANEL: Zukunft der Arbeit** (in German)
Thomas Sattelberger (former HR Director Deutsche Telekom), Herbert Klein (Agfa HealthCare), Heinrich Birner (ver.di), Moderator: Oliver Rolofs (Head of Global Media Relations, Roland Berger)
- 16:40 BREAK
- TRACK: Digital Innovation Management**
- 17:00 **PANEL: Digital Innovation – how to bridge start-ups with corporates?**
Antje von Loeper (Innosabi), Dr. Helmut Schönenberger (UnternehmerTUM), Dr. Thomas Wenzel (next47), Moderator: Dr. Carsten Rudolph (BayStartUp)
- 17:45 **Final Performance Fuchs & Hahn**
- 17:55 **INNOVATION TALK: How to deal with technological disruptors? Lessons and Insights from different Sectors (Financial, Automotive,...)**
Dr. Daniel Hildebrand (Spielfeld), Manuel Reil (Alyne), Moderator: Tom Koehler (EY)
- 18:30 **Live Audio-Video Performance of Markus Mehr and Stefanie Sixt**
- 19:15 **Music and Networking featuring DJ Tomcat**
- 21:00 THE END

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Main Floor / Workshop Zone (Stage)

- TRACK: Blockchain**
- 15:00-15:15 Use Case Blockchain
Blockchain Use Case 3D Printing
Andrei Mituca, 3d Trust
- 15:15-15:30 Use Case Blockchain
Authentication and ID Management in BlockChains
Dr. Florian Gawlas, Giesecke+Devrient
- 15:30-15:45 Use Case Blockchain
Blockchain Business Modelling in the context of Innovation Management
Michael Kuegler, Magic Software
- 15:45-16:00 Use Case Blockchain
Bridging Crypto and Real World Assets
Jakob Drzazga & Martin Mischke, BrickBlock
- 16:00-16:20 Project Experiences
End-to-End Digitization at Financial Services Companies
Wolfgang Hach, Partner at Roland Berger
- 16:20-16:35 Use Case Authentication
Frictionless Insurers: 4 customer cases in a nutshell
Dennis Joanidis, CEO of onegini (NL)
- 16:40-16:55
Live Performance of YPL
 Tonhalle Center Floor
- 17:00-17:15 Use Case Authentication
Online Authentisierung mit nPA
Michael Genth, Key Account Manager, Procilon
- 17:15-17:30 Use Case Post-Quantum-Crypto
Use of Post Quantum Signatures in praxis
Stefan-Lukas Gazdag, Product Development, genua
- 17:30-18:00 Workshop on Cognitive IoT
Cognitive IoT – a hands-on chatbot experience
 Introduction to Cognitive IoT
 Demo how to set-up a Chatbot
 Design Thinking in Cognitive IoT
Dr. Diana Nanova, IBM, Watson IoT Consultant
- 18:00-18:30 **Live Music Performance**
 Acoustic Duo Evelina and Luis

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Project and Hacking Zones (upstairs)

- 15:35-15:50 **Project Open Source Hardware for Secure Platforms**
 Introduction to Free and Open Source Silicon (FOSSI)
 Showcase: lowRISC open source system-on-chip
Stefan Wallentowitz, Simless
- 15:55-16:05 **Project APOLI**
Research Project - SDN and NFV for Secure Business Processes
Dr. Thomas Trägler, Software Factory
- 16:05-16:15 **Project secUnity**
secUnity-connecting IT Security Research
Kathrin Noack, Karlsruhe Institute of Technology
- 16:15-16:25 **Project IUNO**
IUNO-Cyber Security in Industry 4.0
Sebastian Rohr, accesssec
- 16:25-16:35 **Project ALESSIO**
ALESSIO – Security solutions for embedded systems
Dr. Detlef Houdeau, Infineon
- 16:35 BREAK
- 17:00-17:45 **Workshop Creativity Training**
 (in German, Max. 20 Personen)
Durch kreative Fähigkeiten Innovationen schaffen
Dr. Nora-Corinna Jacob, Psychologist

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