

# Mario Gleirscher



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Last updated: February 8, 2018

## Research Interests

My research focuses on (i) the improvement of formal methods for the analysis, the design, and the assurance of controllers for dependable autonomous machines (AM), and (ii) the enhancement of empirically founded theories of using such methods in practical AM engineering.

## Education

<b>Technical University of Munich</b> <i>Ph.D. Computer Science (Dr. rer. nat., magna cum laude)</i> Title: Behavioural Safety of Technical Systems. Advisors: Prof. Dr. Manfred Broy, Prof. Dr. Jan Peleska.	Munich Oct 08 – Nov 14
<b>Technical University of Munich</b> <i>M.Sc. Computer Science (Informatik-Diplom, very good)</i> Major: Theoretical Computer Science. Minor subject: Mathematics	Munich Nov 99 – Apr 05
<b>Höhere Technische Lehranstalt Fulpmes</b> (technical secondary school) <i>Vocational education in Mechanical and Production Engineering (Matura)</i>	Fulpmes, Austria Sep 94 – Jul 99

## Academic Employment and Experience

<b>University of York</b> / Dept. of Computer Science / High Integrity Systems Engineering <i>Visiting researcher:</i> dependable autonomous machines (Profs. Woodcock / Cavalcanti)	York, UK Oct 17 – present
<b>Technical University of Munich</b> / Dept. of Informatics <i>Habilitation candidate:</i> dependable autonomous machines <i>Postdoctoral research associate:</i> formal methods for dependable systems (Profs. Broy / Pretschner) <i>Career break:</i> round-the-world trip, personal development / <i>independent research:</i> system safety <i>Research associate and teaching assistant:</i> system specification, design, and verification (Prof. Broy) <i>Research assistant:</i> software and systems engineering / computer graphics (Profs. Broy / Westermann)	Munich, Germany Nov 16 – present Oct 15 – Sep 17 Oct 14 – Sep 15 Oct 08 – Sep 14 Sep 02 – Feb 04

## Industrial Employment and Experience

<b>Senior software engineer, freelancing</b> , German software industry Analysis and development of business information systems, consultancy	Munich and Cologne, Germany Jun 08 – Jan 10
<b>Junior systems engineer and researcher</b> at <b>Airbus Group Innovations</b> Method engineering, design of systems engineering tools, consultancy, student supervision	Ottobrunn, Germany Sep 05 – May 08
<b>Junior software engineer:</b> at <b>CONTENS</b> (Sep 00 – Mar 02), in Open Source scene (Feb 01 – Jan 06) Development of database applications for business information systems	Munich Sep 00 – Jan 06

## Received Research Grants & Awards

<i>DFG research fellowship</i> , grant no. GL 915/1-1	Oct 17 – Sep 18
<i>DAAD FIT weltweit fellowship</i>	returned
<i>Best paper</i> at 4th Software Quality Days, Vienna, Austria	Jan 2012