

Mario Gleirscher

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Research Interests

I conduct research in formal analysis of dependable software-controlled systems. My research focuses on (i) the improvement of formal methods for analysis, design, and 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

Technical University of Munich Munich
Ph.D. Computer Science (Dr. rer. nat., magna cum laude) Oct 08 – Nov 14
Title: Behavioural Safety of Technical Systems. Advisors: Prof. Dr. Manfred Broy, Prof. Dr. Jan Peleska.

Technical University of Munich Munich
M.Sc. Computer Science (Informatik-Diplom, very good) Nov 99 – Apr 05
Major: Theoretical Computer Science. Minor subject: Mathematics

Höhere Technische Lehranstalt Fulpmes (technical secondary school) Fulpmes, Austria
Vocational education in Mechanical and Production Engineering (Matura) Sep 94 – Jul 99

Academic Employment and Experience

University of York / Dept. of Computer Science / High Integrity Systems Engineering York, UK
Visiting researcher: dependable autonomous machines (Profs. Woodcock / Cavalcanti) Oct 17 – present

Technical University of Munich / Dept. of Informatics Munich, Germany
Habilitation candidate: dependable autonomous machines Nov 16 – present
Postdoctoral research associate: formal methods for dependable systems (Profs. Broy / Pretschner) Oct 15 – Sep 17
Career break: round-the-world trip, personal development / *independent research:* system safety Oct 14 – Sep 15
Research associate and teaching assistant: system specification, design, and verification (Prof. Broy) Oct 08 – Sep 14
Research assistant: software and systems engineering / computer graphics (Profs. Broy / Westermann) Sep 02 – Feb 04

Industrial Employment and Experience

Senior software engineer, freelancing, German software industry Munich and Cologne, Germany
Analysis and development of business information systems, consultancy Jun 08 – Jan 10

Junior systems engineer and researcher at Airbus Group Innovations Ottobrunn, Germany
Method engineering, design of systems engineering tools, consultancy, student supervision Sep 05 – May 08

Junior software engineer: at **CONTENS** (Sep 00 – Mar 02), in Open Source scene (Feb 01 – Jan 06) Munich
Development of database applications for business information systems Sep 00 – Jan 06

Received Research Grants & Awards

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