
Professional Experience

iQuest GmbH & Co. KG

2016 – **Sr. Technical Consultant**, Dortmund.

present Requirements engineering and solution architecture for the RWE / Innogy SmartHome project incl. PoC development. Responsible for an ALM redesign and the external API refinements. Security and performance considerations. Software development enhancements and quality assurance.

University of Regensburg

2012 – 2015 **Research Assistant**, Regensburg.

Research in the field of scientific simulations and data analysis including algorithmic and numerical work. Worked on low level code for High Performance Computing for massively parallel architectures, e.g., the Intel Xeon Phi. Member of the QPACE 2 team, with expertise in advanced parallel programming.

2010 – 2014 **Course Development**, Regensburg.

Initiated and maintained lectures in the area of IT education such as software design patterns, web applications, C#, or JavaScript.

2009 – 2012 **Teaching Assistant**, Regensburg.

Created, verified, and evaluated homework assignments and final tests. Supported the tutorials of courses like Maple, LaTeX, or MATLAB.

Freelancer

2012 – **Technology Evangelist**, Regensburg.

present Seminar speaker and trainer for various companies and conferences in the areas of Microsoft and web technologies.

2009 – **IT Consultant**, Regensburg.

present Consulting companies in creating and maintaining software with high efficiency. Specialized in large refactorings, performance evaluations, and cross-platform development.

Avago Technologies GmbH

2007 – 2009 **IT Consultant**, Regensburg.

Improved the company's IT infrastructure with robust and efficient solutions. Designed the architecture for multiple applications. Implemented, reviewed, and documented project progress for LOB applications.

Infineon Technologies AG

2004 – 2007 **Jr. Software Engineer**, Regensburg.

Attended a three-year program certified by the German chamber of commerce with special training provided by Siemens Professional Education. The program involved the creation, implementation, and maintenance of enterprise solutions.

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Education

- 2012 – 2015 **Ph.D.**, *Physics*, University of Regensburg, Germany.
Completed the dissertation with title *Feynman Diagram Sampling for QCD on the QPACE 2 Supercomputer* in December 2015, magna cum laude.
- 2011 – 2012 **M.Sc.**, *Physics*, University of Regensburg, Germany.
Research in the field of High Energy Physics, Thesis in High Performance Computing, very good (1.0).
- 2010 – 2011 **Graduate**, *Physics*, University of Colorado, Boulder.
Research in the fields of High Performance Computing and High Energy Physics, very good (4.0).
- 2007 – 2010 **B.Sc.**, *Physics*, University of Regensburg, Germany.
Thesis in Theoretical Physics with specialization biomechanics, good (1.6).
- 2004 – 2007 **Applied Computer Scientist**, *IHK*, Regensburg.
Jr. Software Engineer working at Infineon Technologies with certified graduation.

Skills

Software Engineering

Continuous Delivery, Continuous Integration
Application Lifecycle Management, UML
Software Design Patterns, TDD, SOLID
Extreme Programming, Scrum

Software Applications

Windows, PowerShell, Office, Visual Studio
Linux, Bash, Vim, Make
Sublime Text, Git, Cake, Gulp

Computer Languages

C/C++, C#, JavaScript
HTML, XML, Markdown, XAML, LaTeX
CSS, YAML, Razor, SQL, CQL

Human Languages

German

native language

English

full professional proficiency (ILR scale)

Awards and Honors

- Apr 2015 **Microsoft Azure IoT Contest.**
Second prize
- Nov 2013 **Intel Perceptual Computing Contest.**
Pioneer award
- Mar 2013 **Intel Perceptual Computing Contest.**
First and second prize

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- 2013 – 2015 **CodeProject MVP.**
Articles about programming
- Dec 2012 **Intel App Innovation Contest.**
Category *Education* and overall
- 2012 – present **Microsoft MVP.**
Development technologies
- May 2008 **SIFE Spirit Award.**
Annual national competition

Scholarships

- 2013 – 2015 **Studienstiftung des deutschen Volkes.**
Research and expenses (PhD in theoretical particle physics)
- 2012 – 2015 **e-fellows.net.**
Extracurricular activities
- 2010 – 2011 **German Academic Exchange Service (DAAD).**
Tuition and expenses (University of Colorado at Boulder)

Current Engagements

- Mar 2014 **Usability Regionalgruppe Oberpfalz (German UPA).**
Founding member
- Aug 2012 **.NET Usergroup Regensburg.**
Organizer, speaker, and webmaster
- Apr 2012 **GitHub.**
Contributor and maintainer

Further Qualifications

- May 2012 **Business Plan.**
Seminar at the University of Regensburg.
- Mar 2012 **Management.**
Summer school by the Hans-Lindner-Foundation.
- Dec 2011 **Public Relations.**
Seminar at the University of Regensburg.
- Nov 2011 **Project Management.**
Seminar at the University of Regensburg.
- Dec 2004 **Presentation Techniques.**
Seminar organized by Siemens Professional Education.