

Fabio Niephaus

Stahnsdorfer Str. 95
14482 Potsdam, Germany
☎ +49 (0) 151 15603009
✉ me@fniephaus.com
🌐 fniephaus.com
in 🐦 📷 f fniephaus



Education

- Oct 2014 – Present **Master of Science**, Hasso Plattner Institute, Potsdam, Germany.
Majoring in IT-Systems Engineering; *Relevant coursework*: Virtual Machine and Execution Environments, Live Programming Systems, Module systems, Web-based Development Environments, Global Team-Based Product Innovation & Engineering (ME310).
- Oct 2011 – Jul 2014 **Bachelor of Science (with distinction)**, Hasso Plattner Institute, Potsdam, Germany.
Majored in IT-Systems Engineering; *Relevant coursework*: Software Architecture, Software Engineering, Operating Systems, Database Systems, Internet and WWW Technologies, Advanced Techniques in Practical System and Networking Security, Designing Interactive Systems (HCI).
- Aug 2001 – Aug 2010 **German Abitur**, Grafschafter Gymnasium Moers, Moers, Germany.

Experience

- Apr 2014 – Present **Teaching Assistant**, Software Architecture Group, HPI, Potsdam, Germany.
Mentoring student teams for the Software Architecture and Software Engineering lectures.
- Apr 2007 – Present **Freelance Software Engineer**, Potsdam, Germany.
Internet and computer services such as website development or IT administration;
Notable clients: Maton Guitars, Modeagentur Bucksch GmbH & Co. KG.
- Aug 2015 – Mar 2016 **Site Reliability Engineering Intern**, Google, Dublin, Ireland.
Designed and built an internal customer dashboard for Google's offline storage system and worked on its monitoring and backend components. Facilitated internal Design Thinking training sessions.
- Aug 2012 – Mar 2014 **Public Relations Assistant**, Hasso Plattner Institute, Potsdam, Germany.
Managed website and social media channels.
- Nov 2010 – Jul 2011 **Full Time Intern**, Production Department, Maton Guitars, Melbourne, Australia.

Publications

- Aug 2017 **Squeak Makes a Good Python Debugger**.
F. Niephaus, T. Felgentreff, T. Pape, R. Hirschfeld.
In Proceedings of the Programming Experience 2017 (PX/17) Workshop, 2017. (to appear)
- Aug 2016 **smalltalkCI: A Continuous Integration Framework for Smalltalk Projects**.
F. Niephaus, D. Henrichs, M. Taeumel, T. Pape, T. Felgentreff, R. Hirschfeld.
In Proceedings of the International Workshop on Smalltalk Technologies, 2016.
- Mar 2016 **Matriona: class nesting with parameterization in Squeak/Smalltalk**.
M. Springer, F. Niephaus, H. Masuhara, R. Hirschfeld.
In Proceedings of the 15th International Conference on Modularity, 2016.
- Jul 2015 **Call-target-specific Method Arguments**.
F. Niephaus, M. Springer, T. Felgentreff, T. Pape, R. Hirschfeld.
In Proceedings of the 10th Implementation, Compilation, Optimization of Object-Oriented Languages, Programs and Systems Workshop (ICOOOLPS), 2015.
- Feb 2015 **ecoControl**, Design and implementation of a prototype for optimizing heterogeneous energy systems in multi-family residential buildings.
Herbst, Maschler, Niephaus, Reimann, Steier, Felgentreff, Lincke, Taeumel, Hirschfeld, Witt.

Notable Projects

- Apr 2016 – Aug 2016 **Master's Project on Virtual Execution Environments.**
Worked on a Smalltalk virtual machine written in RPython. Integrated SQLite, so that programming language and query language are executed by the same VM using the same JIT compiler.
- Oct 2014 – Jul 2015 **ME310 Global Team-based Product Innovation & Engineering.**
Worked on a design challenge in corporation with Stanford University and University of St. Gallen. Developed a prototype to improve the collaboration between engineers at ThyssenKrupp, using Design Thinking methodologies.
- Oct 2013 – Jan 2015 **Efficient Energy Management for Heterogeneous Energy Systems.**
Developed a system to optimize the use of energy systems in residential buildings.

Scholarships & Awards

- Dec 2011 – Present **Scholar of the German National Academic Foundation.**
- Oct 2011 – Present **e-fellows.net Scholar.**
- Apr 2017 **ACM Student Research Competition Winner**, «Programming» 2017, Brussels, Belgium.
- Oct 2014 **Google Award**, Best Integration of Android Wear, HackZurich 2014, Zürich, Switzerland.

Extracurricular Activities

- Apr 2014 – Present **Assistant Basketball Coach**, College Sports, University of Potsdam.
- Jun 2012 – Jun 2013 **Scholarship Student Representative**, German National Academic Foundation.
- Mar 2009 – Aug 2010 **School Council President**, Grafschafter Gymnasium Moers.
- Jun 2009 – Jul 2010 **Schüler-Planspiel United-Nations (SPUN).**
Participated as representative and as commission leader.
- Aug 2008 **Deutsche SchülerAkademie.**
Participated in an eXtreme Programming course for gifted pupils.

Other

- Languages German (native), English (fluent), French (basic).
- Interests Music, electric and acoustic guitars, basketball, sports, movies, traveling, embedded systems (e.g. Raspberry Pi).
- Memberships ACM, Squeak e.V., CdE e.V.