Armin Wasicek

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WORK AND RESEARCH EXPERIENCE

Brocade Communications Inc., San Jose   2016- *present*
Senior Staff Software Engineer, CTO Office – *Machine Learning, Networking & Security*

- Lead an international research effort to leverage machine learning for DDoS mitigation
- Automate data collection and build machine learning pipelines using DevOps tools

University of California, Berkeley   2013-2016
Electrical Engineering and Computer Science, Prof. Edward Lee
Postdoctoral Researcher – *Intelligent Internet-of-Things Engineering*

- Automotive intrusion detection recognizing chip-tuned ECUs using Neural Networks
- Model-based approach for robust automotive systems using aspect-oriented modeling
- Data-driven system design methods to reduce over/under designing of systems

Vienna University of Technology   2007-2013
Institute for Computer Engineering, Prof. Hermann Kopetz
PhD Researcher – *Safe & Secure Real-time Communication Systems*

- Network-on-Chip system integrating ADAS applications on time-triggered SoC
- Middleware for integrating CAN, DDS, TTEthernet, AUTOSAR, serial devices
- Authentication protocols for time-triggered embedded systems using TTEthernet/FlexRay

LEADERSHIP ROLES AND ACTIVITIES

Principal Investigator – *Design and execute research agenda*   2010-2012

- Led cross-functional, international research team of 8 academic and industrial partners
- Coordinated software teams for integration, project management to meet shipping dates

Project development and acquisition – *Fund raising*   2012-2013

- Devised project roadmaps, raised $ 1M funding, diversified portfolio and funding sources

Embedded Software Engineer – *Highly adaptive, problem-oriented developer*

- Prototypes and demonstrators for automotive safety functions (ABS,..), security (RSA lib)
- Developed distributed embedded systems teaching platform used by 100+ students

Startup Advising - *Concept to product*   2012-2015

- Mobile Eye-tracking system; embedded security; perception/LiDAR simulation concept

Lecturer and Advisor   2007-2011

- Taught embedded systems (80 stud/y, lead) and Operating Systems (250 stud/y)
- Supervised Master (5) and Bachelor (12) students

EDUCATION

Vienna University of Technology   2007-2012
Institute for Computer Engineering
PhD in Computer Engineering (Dr. tech., GPA A+)

- Thesis: *"Security in Time-Triggered Systems"*, Advisor: Prof. Hermann Kopetz

Vienna University of Technology   2006
Master of Science, Computer Science (Dipl. Ing.)

- Thesis: *"Using spatio-temporal predicates to recognize situations in field sports"*

PERSONAL

Languages   German – native ◆ English – excellent ◆   French – fluent
Interests   Snowboarding (instructor) ◆ Running ◆ Traveling ◆ Building things
Technical skills Java, JavaScript, C/C++, Python, tensorflow, Linux, ARM, Deep Learning