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Rainer Bachl • 3rd

Senior algorithms engineer

Intel • The University of Connecticut

Nürnberg Area, Germany • 104

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Experience

Senior systems engineer
Intel
Nov 2012 – Present • 5 yrs 4 mos
Nuremberg

Development of algorithms for the LTE receiver, mapping of algorithms to existing Hardware, implementation as a reference code in simulations, verification with simulations.

Senior Systems Engineer
ST-Ericsson
Apr 2008 – Oct 2012 • 4 yrs 7 mos
Nuremberg

Concept development and specification of physical layer algorithms for LTE user equipment, including channel estimation, CQI estimation, MMSE reception for all transmission modes. Performance evaluation and optimization. Evaluation and requirements setting with respect to RF imperfections. Investigation of candidate algorithms and features for LTE Advanced. Coordination of research work.

Standards Delegation Lead, Distinuished Member of Technical Staff
Alcatel-Lucent
Jan 2005 – Apr 2008 • 3 yrs 4 mos
Nuremberg

Coordination of Lucent standards contributions for UMTS and E-UTRA, investigation of technical details for these contributions, alignment of the standards contributions with the Lucent product portfolio, securing intellectual property rights for Lucent, attendance of RAN1 standards meetings, evaluation and reporting of the results from the RAN1 meetings to Bell Labs and R&D departments.

Team leader UMTS algorithm group, Distinguished member of technical staff
Lucent Technologies
Aug 1998 – Dec 2004 • 6 yrs 5 mos
Nuremberg

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Intel GmbH Deutschland

Cezara Apostu • 3rd
Systems Engineer at Intel

Javier M. Paredes • 3rd
Systems Engineer at Intel Corpor

Axel Clausen • 3rd
Principal Engineer Wireless Syste
Intel Deutschland GmbH

Venkatesh Ramakrishnan • 3
LTE Systems Engineer at Intel Corporation

Kamran Khan • 3rd
LTE Systems Engineer at Intel Corporation

Tushar Soni • 3rd
LTE & 5G Systems Engineer at In
Corporation

Tara Reyaz • 3rd
LTE Systems Engineer at Intel

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coordination of the work in a small team working on algorithms.

R&D engineer
Siemens AG
Sep 1996 – Jun 1998 • 1 yr 10 mos
Munich

Modelling, simulation and design verification of a full custom IC design for the ISDN-U tranceiver. Performance analysis of relevant algorithms including equalization, echo cancellation and synchronization. Selection of a rapid prototyping system. Investigation of algorithms for the ADSL receiver.

Education

The University of Connecticut
Postdoc, Blind channel estimation
1995 – 1996

National University of Singapore
Doctor of Philosophy (Ph.D.), Linear array processing in the presence of coherent signals, amplitude and phase errors
1991 – 1995

Technische Universität München
Diplom-Ingenieur, Nachrichtentechnik, 1.9 (1.0 correspondst to best grade)
1983 – 1989

Ranking 18th in class of 217 students

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Endorsed by **Joakim Axmon and 2 others who are highly skilled at this**
Endorsed by **6 of Rainer's colleagues at Intel Corporation**

Digital Signal Proc... · 10
Endorsed by **Denis Markovic and 1 other who is highly skilled at this**
Endorsed by **5 of Rainer's colleagues at Intel Corporation**

Algorithms · 9
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Thomas Chapman • 3rd

System Manager at Ericsson

Ericsson • The University of Manchester

Stockholm, Sweden • 297

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Specialties: Wireless communications research and standardisation, research planning & leadership, Innovation & IP development, Business development

Experience

LTE-A Research and Standardization Engineer
Ericsson
Dec 2011 – Present • 6 yrs 3 mos
Kista, Stockholm

3GPP RAN4 representative
- Expert on RAN4 aspects of Active Antenna Systems and AAS development for LTE-A
- Driven standardisation of other LTE-A topics includng:
- Demodulation and performance requirements for interference coordination
- Carrier aggregation
- RRM requirement development

3GPP RAN1 representative
- UMTS related topics

External consultant
Nokia Siemens Networks
2006 – Nov 2011 • 5 yrs

2010-2011 Chief Architect, HSPA Physical Layer Research
2006-2010 Leader, HSPA physical layer research and simulation group (NSN & Nokia)
- Development of concepts and simulation results for 3GPP feature development and future research
- Planning, overseeing, evaluating simulation activities
- Developing key concepts & IP
- Working alongside multinational NSN research groups and external partners
- Liasing with development groups, product line management, standardisation

2006-2011 Intermittent 3GPP RAN1 delegate, LTE & HSPA

Senior Consultant Engineer

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Joakim Bergström • 3rd
Expert at Ericsson AB

Hao Xu • 3rd
Head of Qualcomm Research Ch

Ulrich Dropmann • 3rd
Head of Standardization - BellLa bei Nokia

Raymond, Wei XIE • 3rd
System Consultant Engineer at N Shanghai Bell

Robert Baldemair • 3rd
Master Researcher at Ericsson

Kimmo Kettunen • 3rd
Senior Architect at Nokia Bell La

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2002 - 2010 Project management, UMTS research and standardisation support to Siemens & Nokia Siemens Networks
2002 - 2006 Project management, standardisation simulation support activities

2008-2009 Business development, healthcare technologies
- Rapid training in medical physics & radiotherapy technologies
- Assistance with Siemens Healthcare business development activities
- Development of analysis of business opportunities in the medical devices market
- Evaluation of novel breast cancer screening technoogy
- Development of CDE funding bid for battlefield medical application

2006-2011
- Assistance in the development of LTE & HSPA simulation tools
- Mobile Communications market intelligence & business case development

2011 Assistant System Design Authority, Radar application

Senior Consultant Engineer
Siemens AG
2000 – Jun 2007 • 7 yrs

2000-2002 UMTS basestation development
- Development of baseband algorithms
2002-2004 3GPP RAN1 main delegate, TDD & TD-SCDMA
2004-2005 3GPP RAN1 delegate, WCDMA & HSPA
2005-2007 3GPP RAN1 deglegate, LTE

Education

The University of Manchester
MEng, PhD, Electronic Engineering, Signal Processing, First (Hons)
1992 – 2000

Technische Universitaet Berlin
Telecommunications
1994 – 1995

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