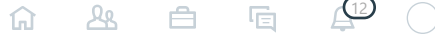





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**Rainer Bachl** • 3rd  
 Senior algorithms engineer  
 Intel • The University of Connecticut  
 Nürnberg Area, Germany • 104




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LTE Systems Engineer at Intel

Learn the skills Rainer has

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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, Distinguished 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

Specification, development, testing of UMTS channel estimation algorithms, UMTS channel estimation



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baseband receiver. Also, bit true verification of the design with simulations, management and 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 transceiver. 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

### Featured Skills & Endorsements

LTE · 13



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

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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

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 including:
  - 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
  - Liaising with development groups, product line management, standardisation

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



**Senior Consultant Engineer**



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2002 - 2011 Cellular mobile communications research (see Siemens & Nokia)  
 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 technology  
 - 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 delegate, 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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