



CV

Erik Sanford

Born: 1989

Residence: Munich

WORK EXPERIENCE

IABG, Centre for Innovation, May 2017 – Present

At the department of Sensor Signal Processing Systems, I am developing antennas and amplifier frontends that are being used in cognitive communication systems. The simulations are carried out with Keysight's ADS and EMPro, followed by layouting in Cadence.

Kathrein Werke KG, Nov. 2013 – Mar. 2017

As an R&D Engineer at Kathrein, I brought mobile communication antennas from concept to production. My tasks were mainly concentrated on simulation followed by prototype verification of PCBs, but also of antennas and their radiation patterns. I was also responsible for setting up design guidelines to reduce cost and improve the Passive Intermodulation (PIM) characteristics of our PCBs. In Nov. 2016 I was appointed deputy group leader.

Saab AB, Electronic Defence Systems, Jan. – June 2013

During six months, I conducted my Master's thesis at Saab EDS, at the Department of Microwave, Antennas and Laser.

Chalmers University of Technology, June – Aug. 2011

During the summer of 2011, I was working as a project assistant at Microwave Electronics Laboratory at the Department of Microtechnology and Nanoscience, Chalmers. My tasks included development of the Matlab GUI of one of their measurement software and also simulations of electromagnetic fields using COMSOL.

Miljödata AB, Karlskrona, June 2007 – Aug. 2010

During the summers and school holidays I was working at Miljödata AB, further developing the company's internal systems, as well as customer aimed products.

EDUCATION

Engineering Physics, Chalmers University of Technology, Gothenburg, 2008 – 2013

I attended the M.Sc. programme of Wireless, Photonics and Space Engineering.

Technical University of Munich, ERASMUS, Academic year of 2011/2012

During the exchange I took courses mainly from the Department of Electrical Engineering.

The Technical Programme with engineering orientation, Ehrensårdiska gymnasiet, Karlskrona, 2005 – 2008

In addition to the basic knowledge of nature science that I got, I took courses in programming and mechanical CAD.

PROJECTS

Master's thesis

The goal of the thesis was to investigate the gain and challenges of co-designing a wideband power amplifier and an antenna. My area of focus was the wideband antenna. The antenna simulations were made in ANSYS HFSS.

Bachelor's thesis

During my Bachelor's thesis, I was part of a team designing a Class-F power amplifier in Agilent ADS. Soldering and measurements were also a part of the project.

COMPUTER KNOWLEDGE

Languages: C#, Java, VB, MSSQL, LaTeX, PHP

Software: CST Microwave Studio, HFSS, Matlab, Microwave Office (AWR), ADS, LabVIEW, COMSOL, OrCAD, Autodesk Inventor

LANGUAGES

Swedish – mother tongue

English – professional proficiency

German – professional proficiency

Spanish – basic knowledge

VOLUNTARY WORK

Mentoring, Intize, Academic year of 2012/2013

Through the academic year I was a part of the mentoring organization of Intize. Our goal was to assist and inspire students in their studies of math.

Band camp, Glimåkra, 2008 – 2011

Four summers in a row, I was a youth leader at a band camp. Some of my tasks were to drive the children to different activities and to play along in the orchestras.

LEISURE

Trombone, Piano, Guitar, Floorball.