

Jonathan Moss

jonathan.moss@outlook.com

Career Experience

Oct 14 - Dec 15

EIP Europe

Expert Witness:

- Assisted EIP in Unwired Planet vs Samsung, Huawei, Google patent litigation case. This involved review and explanation of the cited prior art and exchanging of technical reports with the defence.
- Provided verbal evidence in court in London over 3 days with positive feedback from Mr Justice Birss QC.

May 12 - On-going

Autoliv

Design Lead in Automotive Radar Development

- Developing new automotive radars operating in 77GHz band for several customers. The radars are mounted behind the car bumper and used for driver safety and semi-autonomous driving.
- I have experience of automotive development processes based on DOORS requirements, good understanding of the RF design, signal processing algorithms and Automotive Functional Safety.
- Company representative in SE24 and TGSRR meetings and jointly prepared CEPT report and negotiated limits for roadside radars that coexist with vehicle radars in the 77GHz band.

Jun 97 - On-going

CPD, University of Oxford

Telecoms Consultant (Part Time)

- I deliver training in 4G and 5G telecoms for industry with Harri Holma and Antti Toskala from Nokia.

June 08 - May 12

Consultant

- With two colleagues, set up a company in Dubai to distribute Foxconn's range of LED lighting products in the Middle East and Europe, providing technical sales support and business case preparations.
- Developed a motion-based LED light that saved energy by dimming, deployed in a number of warehouses, cold stores and parking garages in Europe.
- Contracted to provide telecoms services for Huawei UK and Telenor Norway. Delivered telecoms training courses for customers including British Airways, Ericsson, RIM, O2 and the UK Government.
- Contracted to Arieso, a mobile network analysis company that uses network parameters to perform geo-positioning of users for network optimisation purposes. Created and delivered training material to explain the features, benefits, performance and functionality of the Arieso platform for customers worldwide.

Sept 03 - June 08

i-mate™

Director of Engineering

- Managed a global team of engineers to develop new Windows Mobile Phones for customers around the world.
- Coordinated the development of cutting edge products and arranged certification and homologation in local markets and with customers.
- Media trained to represent the company to journalists and analysts. This included support of the floatation of the company on UK's AIM in 2005.

3G Network Performance Optimisation

- Performed in-depth testing of early 3G mobile networks and benchmarking of suppliers, before joining the Manx Telecom team that launched Europe's first 3G network on the Isle of Man in 2001.
- Based in Ireland, assisted 3G network deployment which involved base site inspections and debugging, drive testing and training regional teams.
- Developed a single in-house software tool for optimising 3G networks, adopted across the whole group.
- Managed new site deployment for the O₂ London 3G network, ensuring the right sites were acquired and built, performing RF coverage and performance optimisation.

Education

M.Eng. Engineering Science, University College, Oxford 1990 - 1994

- Elected to College Scholarship after first year. Jointly won a University structural engineering prize.
- Degree sponsored by the UK Government with summer placements.
- Final year specialised in electronics and graduated with Double-First Class with Honours.

D.Phil., University College, Oxford 1994 - 1998

- Thesis and several publications in the field of 3G mobile telecoms, sponsored by BT.
- Designed and built a world-class broadband synthetic aperture radio transceiver to assess performance of future 3G networks.
- Part-time tutor in mathematics and electronics for undergraduates at several Oxford colleges.
- Undertook part time industrial consultancies including delivering a CDMA system to a UK government department and delivering training on CDMA to Nokia Mobile Phones UK.

Publications

- "Energy Conservation with LED Lighting", Moss, Proceedings of Oxford Energy Future Conference, 2011
- "Spread Spectrum Technologies for Future Communications Systems", D.Phil. thesis, Oxford, October 1998
- Contributor to the books "WCDMA for UMTS" and "WCDMA for UMTS - HSPA Evolution and LTE" Edited by Harri Holma and Antti Toskala.
- "3G Trials and Developments", Fenton, Moss, et al included in the book "Future Mobile Networks: 3G and Beyond" 2001
- "Experimental CDMA data overlay of the network in a fading environment", Wireless'99 conference, Calgary, 1999
- "The impact of spreading bandwidth on DS-CDMA power control requirements", Fitton, Moss, Beach, Constantinou, Widdowson, IEEE VTC 1998
- "Spatio-temporal variability analysis of the wideband microcellular environment", Moss, Fitton, Street, Brown, Constantinou, Edwards, IEEE VTC 1998
- "Wideband radio imaging technique for multipath environments", Moss, Street, Edwards, Electronics Letters 1997
- "Analysis of a DS-CDMA Receiver DLL Architecture", Moss, Street, Edwards, Mehler 1996
- "Indoor propagation measurements at millimetric frequencies", Street, Moss, Jenkins, Edwards, Mehler, IEE Colloquium on Indoor Radio Propagation, 1995

Patents and Patent Applications

- “A vehicle System with two Transceiver Arrangements”, WO2016128284 A1, Moss, Publication Date 2016-08-18.
- “Speed Determination of a Target”, EP2884299 A1, Moss, Jenkins, Publication Date 2015-06-17
- “A vehicle radar with two transmitter antennas arrangement”, EP2876460 A1, Moss, Jenkins, Goelz, Schwert, Publication Date 2015-05-27
- “FMCW Radar Self-Test”, US2015362584 A1, Jenkins, Moss, Publication Date 2014-07-16
- “A single sideband spread spectrum generator using Hilbert transform”, CA 2382052C, Widdowson and Moss, Priority Date 1999-08-17.
- “Covert Identification”, WO 1996027191 A1, Edwards, Street, Moss, Publication Date 1996-09-06.
- Several further patent applications not yet published.