Robin Thomas | Curriculum Vitae

(+33) 61828 1799 • ☎ (+33) 49300 8168 ☑ robin.thomas@eurecom.fr • ੴ Personal Webpage

Date of Birth: 17-08-1987

Summary

Dynamic and adept Mobile Communications PhD candidate with 5 years academic research experience in signal processing algorithm design for next generation wireless communication technologies. Currently looking for research and development roles within companies where innovation drives the connected world of tomorrow.

Education

University of Pretoria, Pretoria, South Africa

MEng. Electronic Engineering

2010-2012

Research-based degree, specialization in Wireless Communications

University of Pretoria, Pretoria, South Africa

BEng. (Honours) Electronic Engineering

2009-2010

Coursework-based degree, specialization in Telecommunications

University of Witwatersrand, Johannesburg, South Africa

BSc. Electrical:Information Engineering

2005-2008

Research/Project Experience

Vocational...

Eurecom (Telecom Paristech), Biot, France

PhD Candidate 2013–Present

The thesis explores enhanced interference management techniques for the development of advanced receiver structures as well as spectrally efficient strategies for relay networks. These techniques are analyzed and practically validated using the libraries from the *OpenAirInterface* LTE simulator, which is based in C and MATLAB.

EURECOM, Biot, France

Research Intern

January 2011-June 2011

Conducted exploratory research in the area of multiband TOA positioning for cognitive radio systems through a combination of theoretical and simulation work as part of the Master's degree.

University of Pretoria, Pretoria, South Africa

Master's Thesis

January 2010-June 2012

This research work explored an efficient bandwidth determination model for a Cognitive Positioning System (CPS) and an improved multiband time-of-arrival location estimation algorithm in a cognitive radio environment.

University of Witwatersrand, Johannesburg, South Africa

Bachelor's Final Year Design Project

June 2008-November 2008

Part of a two person team that undertook an open-source 3D game development project based entirely in C++. Responsible for the GUI implementation and made use of object oriented design to integrate various components of the game.

Terabytes, Kochi, India

Software Engineering Intern

December 2006-February 2007

Assisted in the design and implementation of a school management web application using Visual C#.NET as the front end and SQL Server 2000 as the back end of the application. Responsible for the database design and implementation of code for student profiles as well as attendance register modules. Developed skills related to front-end and database design.

Technical Skills

Advanced: MATLAB, C, Digital and Statistical Signal Processing, Parametric Estimation Theory, 3GPP LTE/LTE-A/LTE-A Pro standardization, Cognitive Radio, Wireless Positioning, Software Engineering, LaTeX, Technical Documentation

Intermediate: C++, Bash, OpenAirInterface LTE Simulator, Visual Studio, PSpice, MultiSim, FilterLab, OPNET IT Guru Academic Edition, UML modelling, GUI development, Doxygen

Basic: Visual C#, HTML, CSS, XML, Git, SQL, ATMEL STK500, software debugging and testing, bootstrap

Awards

2014-Present: National Research Foundation PhD Scholarship

2011-2012: National Research Foundation Scarce Skills Scholarship for Masters Students

2010: Sentech Chair in Broadband Wireless Multimedia Communications Postgraduate Scholarship

2008: University of Witwatersrand's Alcom Matomo Prize in Telecommunications for the best final year undergraduate design project

2005: University of Witwatersrand Scholarship

Languages

English: Native/Full working proficiency **Afrikaans**: Limited working proficiency

French: Elementary proficiency

Interests

StartupsFootballVolleyballHikingTennisTravelling

Volunteering.....

Conferences

Student Volunteer

Volunteering roles include:

- Assisting with on-site registration of delegates and setup of exhibits and demos.
- Served as a session monitor for a number of tutorials, technical paper presentations and workshops during the conference.