


PERSONAL INFORMATION

Ioannis Petropoulos

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EDUCATION AND TRAINING

2012 Doctor of Philosophy

School of Engineering, Design and Technology, University of Bradford, United Kingdom

Subject of thesis: DEVELOPMENT OF AN ANTENNA SYSTEM FOR A RELAY-BASED WIRELESS NETWORK

2006 – 2007 Master of Science

School of Engineering and Design, Brunel University, United Kingdom

Subject of MSc degree: Data Communication Systems

Taught modules: Data Communications, Computer Networks, Coding for Compression and Data Security, Optical and Wireless Communication Systems, Project Management, Network Computing, Network Design and Management

Dissertation on Microstrip antennas

1999 – 2004 Bachelor of Science in Physics

Department of Physics, University of Patras, Patra (Greece)

WORK EXPERIENCE

11/2011 – 12/2012

TEI of Athens

Ag. Spiridonos, 12210 Athens (Greece)

<http://www.teiath.gr>

Career Office, TEI Athens (cod. OPC 299927)

The programme was funded by the Operational Programme for Education and Lifelong Learning

Organization and management of events, inform students about postgraduate studies and career opportunities

01/2011 – 12/2011

Research programme: Next Generation Microwave Link - NextGenMilliWave, (cod. MIKRO2 SE B/E II), dep. of Electronics, TEI of Athens

The programme was funded by the Operational programme "COMPETITIVENESS-ENTREPRENEURSHIP"

Design and Simulation of 60GHz slot antenna array, duplexer and filters based on SiW technology

2008 – 2010

fp7 STREP Research programme: Relay Based Wireless Network and Standard – REWIND (Grant agreement no.: 216751, dep. of Electronics, TEI of Athens)

The programme was funded by European Commission

Design, fabrication and performance evaluation of microstrip antennas

Beam-forming system design, fabrication and test measurements

RF front end design and simulation

Project Management

2008 – 2010

Laboratory Associate of the course RADAR and Electromagnetic Compatibility dep. of Electronics, TEI of Athens
 Lab exercises include: shielding of materials, transmission line study, pulse radar

03/2010 – 07/2010

Laboratory Associate of the course Microwaves, dep. of Electronics, TEI of Athens

Lab exercises include: X-band waveguide study, radiation pattern and efficiency measurements of horn antennas, matching techniques

10/2007 – 11/2007

Hellas On Line, (telephony and internet provider company)
 Adrianou 2 and Papada, 11525 Athens (Greece)
 www.hol.gr

Office employee - Residential Back Office

PERSONAL SKILLS

Mother tongue(s) Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Cambridge First Certificate in English					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

Good communication skills gained through my experience as a member of the research team WiCEAR (Wireless Communications and e-applications Research group) of the Department of Electronics, TEI of Athens

Job-related skills

Fabrication of microstrip antennas on photosensitive boards using caustic soda (NaOH) and ferric chloride (FeCl3)

Computer skills

- Computer Knowledge Certification ECDL (Databases, Concepts of IT, Word Processing, Presentations, Information and Communication, Spreadsheets, Using the Computer and Managing Files)
- Ansoft HFSS (High Frequency Structure Simulator). High Frequency 3-D electromagnetic simulator
- Agilent ADS (Advanced Design System). Circuit simulator.
- Altium Designer. PCB Design software.

Knowledge and experience of the above programme was gained during the postgraduate studies and participation in research projects.

Driving licence B

ADDITIONAL INFORMATION

Publications

- [J4] S. Mikroulis, I. Petropoulos, K. Voudouris, "Efficient smart integrated antennas for applications in indoor 60 GHz wireless over fiber systems", *Microelectronic Engineering*, Available online 12 April 2013, ISSN 0167-9317, 10.1016/j.mee.2013.03.166.
- [J3] I. Petropoulos, Nikos Athanasopoulos, Konstantinos Voudouris, Raed A Abd Alhameed, Steve M R Jones, "Phased Array Antenna Receives 4G Networks", *Microwaves and RF*, issue November 2012.
- [J2] K. Voudouris, N. Athanasopoulos, A. Meir, D. Manor, P. Tsiakas, I. Georgas I. Petropoulos, G. Agapiou, "2x2 Switch Matrix for WiMAX Relay Station Applications," *Microwave and Wireless Components Letters, IEEE* , vol.21, no.8, pp.424-426, Aug. 2011.
- [J1] I. Petropoulos, K. Voudouris, R.A. Abd-Alhameed, S.M.R. Jones, and N. Athanasopoulos, "A Novel Design of Microstrip Arrays for Relay-Based Wireless Network", *International Journal of Antennas and Propagation*, Volume 2011 (2011), Article ID 870183, 10 pages, doi:10.1155/2011/870183

Conferences

- [C6] I. Petropoulos, S. Mikroulis, A. Bogris, H. Simos, K. Voudouris, "Novel 60 GHz CPW array antennas with beam-forming features for indoor wireless over fiber networks", *Proc. SPIE 8645, Broadband Access Communication Technologies VII*, Feb., 2013, doi:10.1117/12.2000414.
- [C5] S. Mikroulis, I. Aldaya, I. Petropoulos, E. Giacomidis, K. Voudouris, I. Tomkos, "Investigation on a low-cost single wavelength converged wired-60 GHz wireless OFDM-based system employing a photonic patch antenna. *Proc. SPIE 8645, Broadband Access Communication Technologies VII*, Feb. 2013, doi:10.1117/12.2000413.
- [C4] N. Athanasopoulos, I. Petropoulos, K Voudouris, "2x2 Switch Matrix for a prototype WiMAX Relay Station", *International Conference on Electromagnetic in Advanced Applications* September 12 – 17, 2011 Torino, Italy.
- [C3] N. Athanasopoulos, I. Petropoulos, K Voudouris, "A Phased Array Unit for Adaptive Backhauling in WiMAX Relay Networks", *International Conference on Electromagnetic in Advanced Applications*, September 12 – 17, 2011 Torino, Italy.
- [C2] I. Georgas, I. Petropoulos, K. Voudouris, P. Tsiakas, N. Athanasopoulos, M. V. H. Cohen, B. Cyzs, G. Agapiou and A. Rigas. "Relay vs. Repeater Architectures in WiMAX" 6th International ICST conference on mobile multimedia communications, 6-8 Sept. 2010, Lisbon, Portugal.
- [C1] I. Petropoulos, K. Voudouris, P. Tsiakas, I. Georgas, K. Vergos and G. Agapiou. "A Business Model Analysis for WiMAX Relay Station Networks", *Future Network & Mobile Summit 2010 Conference*, 16-18 June 2010, Florence, Italy.