

# CURRICULUM VITAE

## Dr. Dimitris P. Karampatzakis

G. Papandreou 33A, Drama, Greece

Date of birth ▪ December 11, 1978

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### EDUCATION

**Technical University of Crete (TUC)**, Chania, Greece.

Diploma in Electronic and Computer Engineering (7,73/10), ECE Department, 2003

**University of Thessaly (UTH)**, Volos, Greece.

Ph.D., Department of Computer & Communication Eng. (Excellent), 2009

**Phd Thesis:** "*Analysis and Optimization of Digital CMOS Circuits*", Advisor Prof. G. Stamoulis

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### CURRENT STATUS

- **Visiting Lecturer, Technological Institute of EMTh (TEI Kavalas)**,  
University Programme, Dept. of Computer and Informatics Engineering, Digital Systems Lab,  
**Sep 2009- now**
- **Post Doc Researcher, ATHENA Research and Innovation Center**,  
Working in Project called "WelCOM" (<http://welcom-project.ceti.gr>), Budget (1.92 ME)  
Research and Development Project, "SYNERGASIA"  
**Sep 2011-now**

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### GRANTS

**INTEL unrestricted grant:** "Leakage power analysis & optimization", Budget (10 kE)

**PENED Research Program:** "Concurrent Optimum design for Power Grid and transistor sizing of modern integrated circuits", General Secretariat for Research and Technology of the Greek Ministry of Development. 3 years Program, Budget (110 kE)

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### WORKING EXPERIENCE

**Broadband Technical Manager:** BTS Greece, Design and implementation of broadband solutions for hotels, restaurants and cafe (Hotspots, IPCameras, IPTelephony), 2007 (1.2 ME)

**Microsystems Division Manager:** SENSAP Microsystems SA - a member of Corallia Cluster, Auto-ID - RFID technologies and Applications, Athens, 2007- 2009. I worked for the RFID FP7 EU Project called ASPIRE (<http://www.fp7-aspire.eu/>). Also, I worked on the research for the best RFID products in the market and the decision to resell in Greece the products of IMPINJ, PRINTRONIX and MTI Wireless (year 2007 as a start up company) (350 kE).

**Technology Advisor:** Broadband Network of the Prefecture of Magnesia, Capturing - Designing and implementing the project, Volos-Magnesia, 2006 - 2007 (100 kE).

**CMOS Chip Tape Out:** Two Tape outs of CAPSENIC, a low-power mixed-signal 0.35u ASIC for integrated MEMS sensors, 2005, University of Thessaly - CERTH - THEON SENSORS S.A., Athens (180 kE).

**Information System for the Quality Assurance in Higher Greek Education:** Working in the Project as Project Manager of the Information System Development, TEI Kavalas, 2010 - 2012 (350 kE).

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### PUBLICATIONS

D.P.Karampatzakis participates in (23) academic/scientific publications in the domain of VLSI, EDA and Information Technologies. All related data are available upon request.

## RESEARCH ACTIVITY

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**Reviewer:** IEEE DATE '05 ▪ IEEE ICCAD '04 ▪ 10<sup>th</sup> IEEE IOLTS 2004 ▪ PCI '05 ▪ APMS2012.

**Conference Participation:** XVIII EUROSENSORS (Rome) ▪ ICCAD '04 (San Jose, CA) ▪ DAC'05 (Anaheim, CA), 8<sup>th</sup> Phd Forum, Poster presenter ▪ IEEE PRIME '05 (Lausanne, Swiss) – '06 (South Italy) ▪ PCI '08 (Samos, Greece) ▪ APMS2012 (Rhodes, Greece)

## ACADEMIC PROJECTS (as supervisor)

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- Design and Implementation using VHDL of a 5-stage ARM processor compatible pipeline, University of Thessaly, 2003-2004.
- Analysis and power consumption for various designs of adders using Synopsys EDA tools, University of Thessaly, 2005.
- Timing and area analysis for H.264-SAD design with various adder structures using Synopsys EDA tools, University of Thessaly, 2006.
- A RTL-to-Grid design flow for power grid verification using a statistical estimation engine, University of Thessaly, 2006.
- «IP Fridge: A smart Refrigerator with internet capabilities», TEI Kavallas, 2010.  
Key words: ARM9, NFC, RFID, SENSORS, .NET
- «A RFID BASED SYSTEM FOR FIREFIGHTING EQUIPMENT MANAGEMENT», TEI Kavallas, 2011.  
Key words: UHF RFID, C#, .NET, BizTalk Server, Impinj, LLRP
- «Smart Digital Portrait», TEI Kavallas, 2011.  
Key words: 4DGL, GOLDELOX-GFX2, uOLED 160 G1, DS18B20
- «Online Survey Questionnaires using CMS», TEI Kavallas, 2012.  
Key words: PHP, JQUERY, LIMESURVEY, AJAX
- «EPC RFID Open Source Platform and Apps», TEI Kavallas, 2011.  
Key words: FOSSTRAK, EPC, UHF RFID, IMPINJ
- «Smart TV app for mass media», TEI Kavallas, 2011.  
Key words: Samsung SDK 4.X, HTML5, CSS, JavaScript and jQuery

## TECHNICAL SEMINARS

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- “Power modeling and estimation of digital circuits: Techniques and tools”, by OFFIS and ChipVision (Germany). AIT-INTRACOM, Athens, 2003
- NSF-SIGDA-SRC Design Automation Summer School (DASS), Anaheim, CA, 2005
- “The Art of Project Management for IT/IS Projects”, HAU – Corallia, Athens, 2008.
- “Auto-ID technologies and Datapools”, GS1 GR, Athens, 2008.
- “RFID Products – Partners Training”, IMPINJ, Nice – France, 2008.
- “RFID Printing Solutions – Partners Training”, Printronix, Athens, 2008.
- “Project Management Professional (PMP)® Preparation Course”, Thessaloniki, 2013.

## COMPUTER SKILLS

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- MS Office, Windows, Linux, virtual machines
- EDA CAD Tools: Synopsys Design Compiler and Power Compiler, Pathmill, PowerMill, HSPICE, MTI HDL Simulator, Altera Max plus II, Electric VLSI design
- Good Understanding of Databases, web technologies and open source software
- EPC Global Standards and related open source software.

## LANGUAGES

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Greek (mother tongue)

English (Advanced)

## MEMBERSHIPS

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BEST.eu.org, RFIDConnect, Technical Chamber of Greece (TEE)

## HOBBIES & INTERESTS

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I am listening instrumental & Jazz music, I used to play trombone, I like visiting other countries and sailing. I am also the leader for the Industrial Informatics Festival ([www.i2fest.gr](http://www.i2fest.gr)) and the volunteers' team leader. Owner of the domain names: [rfids.gr](http://rfids.gr), [internetofthings.gr](http://internetofthings.gr), [smart-tv.gr](http://smart-tv.gr)