

BRIEF CURRICULUM VITAE

Personal Data

Born in Thessaloniki, May 8, 1973. Not married

Current Position

Aristotle university of Thessaloniki
Faculty of Rural and Surveying Engineering
Laboratory Teaching Staff

Education

- 1997. Surveying Engineer, Dipl-Eng. The Aristotle University of Thessaloniki, Greece
- 2003. MSc in “*Geo-Informatics- Management of photogrammetric and remote sensing production in GIS environment.*”. Faculty of Rural and Surveying Engineering. Aristotle university of Thessaloniki.
- 2012. PhD “*Combined technologies of low cost Inertial Measurement Units and the Global Navigation Satellite System for photogrammetry applications.*”. Faculty of Rural and Surveying Engineering. The Aristotle University of Thessaloniki, Greece
- 2016. MSc in Applied Informatics “*Computational Methods and Applications.*”. School of information Sciences.. University of Macedonia. Greece.

Participation to National and International Scientific Organization

Member of the Technical Chamber of Greece (TEE)
Association of Registered Surveyors in Greece
Association of Registered Surveyors in Northern Greece
Association of Laboratory Teaching Staff the Aristotle University of Thessaloniki, Greece

Projects – Publications

1 publication in a scientific magazine, 4 in scientific conferences, 1 in Book chapter
(<https://qa.auth.gr/el/cv/patonis>)

Diploma Thesis – Doctoral Thesis

- Diploma Thesis: “*Development of a Photogrammetric methodology for surveying in real time.*”, Department of Rural & Surveyor Engineering (DRSE)-AUTH, November 1997.
- MSc Thesis. “*The Role of Photogrammetry Products in the National Infrastructure of Geographic Information.*”, (DRSE)-AUTH, November 2003.
- MSc Thesis: *Mobile Computing “Systems On Chip”. Application on Augmented Reality*”, School of Information Sciences. University of Macedonia. Greece, June 2016.
- PhD Thesis “*Combined technologies of low cost Inertial Measurement Units and the Global Navigation Satellite System for photogrammetry applications.*”, Faculty of Rural and Surveying Engineering. The Aristotle University of Thessaloniki, Greece, December 2012.

Research and Professional experience

2000-2006. Free agent Rural & Surveyor Engineer. Public and private projects
2000-2016. participation in 23 research projects

Foreign Languages

English:

First Certificate in English, University of Cambridge, June 1989
Preliminary Level, University of Oxford, May 1989.

Specialized knowledge and Applications in the field of Informatics

Programming Languages: Java, Fortran, VB, VBA, HTML, JavaScript, Prolog, Netlogo, Jason

CAD/Databases/GIS:

AutoCAD, MicroStation, Civil3D, Access, WEKA, ArcGIS

Photogrammetry / Remote Sensing: ERDAS, IrasC, LPS, photomodeler, iWitness, ENVI

Highway Design: ODOS, ANADELTA, AutoTurn

Areas of expertise

- Photogrammetry and augmented reality applications development on mobile devices
- Design of low-cost inertial and satellite navigation system for Photogrammetry applications
- Management of Photogrammetric and Remote Sensing Production in GIS environment
- Digital terrain models. Applications in photogrammetry and in high road design
- Analytical and Digital Photogrammetry. photogrammetric surveying
- Organization, programming and database management.
- Analysis and Management of spatial, photogrammetric / remote sensing and traffic data with GIS.
- Calculation and Design of Transportation projects. Road. Junctions.
- Road Safety. Organization and traffic management. Urban public transport.

Teaching Experience and Participation in Education

- 2000 - 2014:
Teaching SPECIFIC TOPICS IN HIGHWAY DESIGN & TRANSPORT DESIGN OF TRANSPORTATION PROJECTS USING COMPUTERS
Support diploma theses in the fields of Photogrammetry and high way design
- 2005 - today. Integration in the main teaching staff of the National Register of Public Administration and Local Government Center.
- 2015 Reviewer in the International Academy, Research and Industry Association (IARIA)
- 2014-2017. Member of the teaching teams in DRSE courses:
 - TECHNICAL DRAWING
 - SPECIFIC TOPICS IN HIGHWAY DESIGN & TRANSPORT - DESIGN OF TRANSPORTATION PROJECTS USING COMPUTERS
 - DATA COLLECTION AND ANALYSIS TECHNIQUES ELEMENTS OF OPERATION RESEARCH. Interdepartmental Program of Postgraduate Studies. Program of Postgraduate Courses on Transportation. Departments of Civil Engineering and Rural and Surveying Engineering (from 2016-2017).
 - DIGITAL TERRAIN MODELS: METHODOLOGY, TECHNOLOGIES, APPLICATIONS
 - SURVEYING INSTRUMENTS AND MEASUREMENT TECHNIQUES
 - ANALYTICAL PHOTOGRAMMETRY
 - Postgraduate Program. Geo-Informatics - Management of photogrammetric and remote sensing production in GIS environment. Laboratory – Applications
 - Interdepartmental Program of Postgraduate Studies. “Protection conservation and Restoration of Cultural Monuments” – laboratory 1.
 - PHOTOGRAMMETRIC APPLICATIONS IN ARCHITECTURE AND ARCHEOLOGY
 - ENGINEERING SURVEYS
 - FIELD APPLICATION OF LAYOUT PLANS AND SURVEYING PRACTICE
 - GPS
 - FIELD SURVEYING EXERCISES

Notes for Lessons

- “Notes for Technical Drawing”. 2014
- “Short Manuals for Total Stations”. 2014