SPYROS MANIATOPOULOS

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EDUCATION

09/2005-03/2012 **National Technical University of Athens (NTUA)**, Athens, Greece
- Diploma in **Mechanical Engineering** (5 year-long degree)
- Diploma degree Grade: 7.71/10 - "*Very Good*"
- *Air and Ground Transport Vehicles* specialization
- Thesis: "*Development of Predictive Navigation Schemes for Aircraft-like Vehicles*"
- Diploma Thesis Advisor: Professor Kostas J. Kyriakopoulos, Control Systems Lab (CSL)

05/2011 **HYCON2 - EECI Graduate School on Control 2011**, European Embedded Control Institute, Supélec, France
- One week intensive course (graduate-level) on "*Optimality, Stabilization and Feedback in Nonlinear Control*"
- Instructor: Professor Francis Clarke

09/2002 – 06/2005 **High School,** Athens, Greece (Grade: 18.5/20, Distinction)

PUBLICATIONS

[1] ACC 2012 **Spyros Maniatopoulos**, Dimos V. Dimarogonas, and Kostas J. Kyriakopoulos,
"*A Decentralized Event-based Predictive Navigation Scheme for Air-Traffic Control*",
The 2012 American Control Conference, Montréal, Canada, June 2012

[2] NGCUV 2012 Dimitra Panagou, **Spyros Maniatopoulos**, and Kostas J. Kyriakopoulos,
"*Control of an Underactuated Underwater Vehicle in 3D Space under Field-of-View Constraints*",
IFAC Workshop on Navigation, Guidance and Control of Underwater Vehicles, Porto, Portugal, April 2012

[3] CDC 2012 **Spyros Maniatopoulos,** Dimitra Panagou, and Kostas J. Kyriakopoulos,
"*A Model Predictive Control Scheme for the Navigation of a Nonholonomic Robot with Field-of-View Constraints*",
51st IEEE Conference on Decision and Control, Maui, Hawaii, USA, 2012 (submitted)

PROFESSIONAL / RESEARCH EXPERIENCE

RESEARCH INTERESTS Control Systems, Robotics, Decision Making

6/2011 - 7/2012 **Research Assistant**, *Underwater Robotics Group*, Control Systems Lab, NTUA, Greece
- Working on the navigation and control of underactuated underwater vehicles
  Project PANDORA (EU, FP7, 2011 – 2014):
  "Persistent Autonomy through Learning, Adaptation, Observation and Re-planning"
- Assisting in the management of CSL's Underwater Robotics Group
- Assisting in the management of project R3 - COP:
  "Resilient Reasoning Robotic Co-operating Systems", ARTEMIS Joint Undertaking, 2010 – 2013
- Assisting with lab exercise and demonstrations for undergraduate-level courses on
  Industrial Electronics, Control Systems I & II, Microprocessors based Control, Intelligent Systems and Robotics

5/2011 - 6/2011 **Visiting Student**, Automatic Control Lab, KTH Royal Institute of Technology, Stockholm, Sweden
- Invited by Prof. Dimos V. Dimarogonas
- Worked on the decentralization of predictive navigation schemes for aircraft-like vehicles
- Attended graduate-level lectures on networked and multi-agent control systems

06/2010-05/2011 **Research Assistant**, Control Systems Lab, NTUA, Greece
- Worked on project iFly (EE, FP6-2005-TREN 4, 2007 – 2011):
  "Safety complexity and responsibility based design and validation of highly automated air traffic management"
- Assisted with lab exercises and demonstrations for undergraduate-level courses on
  Industrial Electronics, Control Systems I & II, Microprocessors based Control, Intelligent Systems and Robotics

06/2009-09/2009 **Summer Internship,** Kallidromo Railway Tunnel, Northern Site, J&P Avax S.A., Greece
- Trainee at the Department of Maintenance and Operation of Site Facilities
- Reference: Nick Rigopoulos, Construction Manager

SKILLS

- Programming: FORTRAN, C/C++, Python, Java, HTML
- Software: Matlab/Simulink, Mathematica, AutoCAD 2D, LaTeX

LANGUAGES

- English (fluent – CPE Uni. of Cambridge, CPE Uni. of Michigan, TOEFL iBT score: 115/120),
  French (moderate – DELF A1-A4), Spanish (basic – not certified), Greek (native)