# **Spyros Maniatopoulos**

149 Vouliagmenis Av. • 11631, Athens, Greece • (+30) 6948549006 • [sp.maniato@gmail.com](mailto:sp.maniato@gmail.com) • [controlsystemslab.gr/smaniato](http://controlsystemslab.gr/smaniato/)

**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](http://users.ntua.gr/kkyria/), 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](http://math.univ-lyon1.fr/~clarke/)

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

**Publications**

[1] ACC 2012 **Spyros Maniatopoulos**, [Dimos V. Dimarogonas](http://www.s3.kth.se/~dimos/), and [Kostas J. Kyriakopoulos](http://users.ntua.gr/kkyria/),  
“*A Decentralized Event-based Predictive Navigation Scheme for Air-Traffic Control*”,  
 [The 2012 American Control Conference](http://a2c2.org/conferences/acc2012/index.php), Montréal, Canada, June 2012

[2] NGCUV 2012 [Dimitra Panagou](http://users.ntua.gr/dpanagou/), **Spyros Maniatopoulos**, and [Kostas J. Kyriakopoulos](http://users.ntua.gr/kkyria/),  
“*Control of an Underactuated Underwater Vehicle in 3D Space under Field-of-View Constraints*”,  
 [IFAC Workshop on Navigation, Guidance and Control of Underwater Vehicles](http://paginas.fe.up.pt/~ngcuv2012/index.html), Porto, Portugal, April 2012

[3] CDC 2012 **Spyros Maniatopoulos,** [Dimitra Panagou](http://users.ntua.gr/dpanagou/), and [Kostas J. Kyriakopoulos](http://users.ntua.gr/kkyria/),  
“*A Model Predictive Control Scheme for the Navigation of a Nonholonomic Robot with Field-of-View Constraints*”,  
 [51st IEEE Conference on Decision and Control](http://control.disp.uniroma2.it/cdc2012/), 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](http://site.csl.mech.ntua.gr/main/), 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](http://www.r3-cop.eu/):   
  “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](http://www.kth.se/en/ees/omskolan/organisation/avdelningar/ac), KTH Royal Institute of Technology, Stockholm, Sweden

* Invited by Prof. [Dimos V. Dimarogonas](http://www.s3.kth.se/~dimos/)
* 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](http://site.csl.mech.ntua.gr/main/), NTUA, Greece

* Worked on project [iFly](http://ifly.nlr.nl/) (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.](http://www.jp-avax.gr/), Greece

* Trainee at the Department of Maintenance and Operation of Site Facilities
* Reference: [Nick Rigopoulos](mailto:nrigopoulos@jp-avax.gr?subject=Reference%20for%20MANIATOPOULOS%20Spyros), 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)