

Alexandros Nikolakakis

Curriculum Vitae

PERSONAL INFORMATION

Full Name: ALEXANDROS – EMMANOUIL NIKOLAKAKIS
Nationality: Greek
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EDUCATION

Sept 2009 – PhD Candidate:
Modeling & Control of four-legged robots

National Technical University of Athens (NTUA)
Mech. Engineering Department
Control Systems Lab
<http://csl-ep.mech.ntua.gr>

2001 – Feb 2009 National Technical University of Athens (NTUA)
Diploma in Mechanical Engineering
GPA: 7/10 (Very Good)

Diploma Thesis: “Design and implementation of a DC Motor Drive capable of torque, position and velocity control” (Using dsPIC microcontroller and power electronics)
Supervisor: Prof. E.G. Papadopoulos

1994 - 2000 Athens College, Greece (High school)
Graduation Grade: 19.1/20
Distinction (Grade Above 18.5/20)

WORKING EXPERIENCE / RESEARCH PROJECTS

Jan 09 - present Innora Ltd. – R&D Engineer
Mechatronics Design – Software Programming
R&D in sensor networks / arrays, wireless communications, robotics, mechatronics, embedded systems, FPGA's.
<http://www.innora.gr>

- Sept 09 - present National Technical University of Athens (NTUA) – PhD Candidate**
Modeling & Control of four-legged robots
- Nov 08 – July 09 European Space Agency (ESA) – Assistant Researcher**
“Identification and assessment of existing terrestrial micro-systems and micro-technologies for Space Robotics”
Contract number : AO/1-5905/08
- July 08 – July 09 Swarm of line-following robots – Developer**
System Design – Electronics Design - Software Algorithm Programming
- 2007 – May 09 Quadruped Running Robot – Diploma Thesis**
DC Motor Drive (Torque, Position, Speed Control)
Encoder – PC104 / Data acquisition and communications PCB

TECHNICAL SKILLS

- Hardware** Design and implementation of electronic circuits
Mechanical Design
- Programming** Good knowledge of C and C30 (dsPIC oriented language)
Matlab
- Software** Excellent knowledge of electronic design software (EAGLE)
Simulink
- Other** Windows OS / MS Office - professional level
Linux OS - average user
Server setup / Network Administrator

LANGUAGES

- Greek** Native Language
- English** Very Fluent (Toefl CBT 283/300)
- French** Basic (DELF A1,A2,A3,A4)

INTRESTS

- Research** Innovative applications using state-of-the-art technology
Design and control of robotic systems / mechatronics
Microcontrollers, embedded systems, sensors, wireless technologies
- Web Design** <http://csl-ep.mech.ntua.gr>, <http://www.innora.gr>, others
- Sports** Kung-Fu, tennis, football, beach volley, windsurfing

PUBLICATIONS

[1] **Cherouvim N., Chatzakos P., Nikolakakis A. and Papadopoulos E.**, "Novel Design and Control of a Robot with One Leg," 1st Panhellenic Conference on Robotics, Athens, Greece, 2009.

[1] **Nicolakakis A, Kontolatis I, Cherouvim N., Chatzakos P. and Papadopoulos E.**, "Implementation of a quadruped robot pronking / bounding gait using a multipart controller", Dynamic Systems Control Conference (ASME), Boston, US, 2010.