George P. Kontoudis

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EDUCATION

PhD, Virginia Tech, USA Kevin T. Crofton Department of Aerospace and Ocean Engineering Advisor: Prof. Daniel Stilwell Co-advisor: Prof. Kyriakos G. Vamvoudakis Current GPA: 4.0/4.0	Present
MSc, Virginia Tech, USA Department of Mechanical Engineering Advisor: Prof. Tomonari Furukawa Co-advisor: Prof. Kyriakos G. Vamvoudakis GPA: 4.0/4.0 (Coursework completed)	Present
Diploma (MSc), National Technical University of Athens, Greece School of Mechanical Engineering Advisor: Prof. Kostas J. Kyriakopoulos Co-advisor: Prof. Minas Liarokapis Grade: 7.76/10 (top 20%)	2016
BSc, Piraeus University of Applied Sciences, Greece Department of Mechanical Engineering	2010
RESEARCH EXPERIENCE	
Graduate Research Assistant Autonomous Systems and Control Laboratory Virginia Tech, USA	August 2018 - Present
Graduate Research Assistant Computational Multiphysics Systems Laboratory Virginia Tech, USA	May 2017 - August 2018
Member & Research Associate The OpenBionics Initiative	September 2014 - Present
Research Assistant Control Systems Laboratory National Technical University of Athens, Greece	April 2014 - March 2016
TEACHING EXPERIENCE	
Graduate Teaching Assistant Department of Mechanical Engineering, Virginia Tech, USA	August 2016 - May 2017
Lectured 80 students in a senior level, control systems lab.Guided 20 students in a series of 8 junior level, mechanical engineering labs.	Fall 2016 Spring 2017
AWARDS & HONORS	
NTUA Thomaideion Award Hackaday Prize, 2^{nd} place (among 900 projects) Robotdalen Innovation Award, 1^{st} place IEEE/RAS Student Travel Award (IROS)	Greece 2016 USA 2015 Sweden 2015 Germany 2015

PROFESSIONAL EXPERIENCE

Senior Mechanical Engineer

March 2016 - June 2016

Heliix Inc., Athens, Greece

· Worked on the product design & development of a waste heat recovery device

Site Supervisor September 2013 - August 2015

Sychem S.A., Athens, Greece

· Provided guidance to industrial maintenance crew of 6 people for a desalination plant

Mechanical Engineer October 2010 - September 2013

Sychem S.A., Athens, Greece

· Monitored and commissioned desalination plants

Aircraft Maintenance Engineer Trainee May 2008 - January 2010

Olympic Aviation, Athens, Greece

· Performed engineering work of maintenance and modifications on aircrafts

PUBLICATIONS

Referred Conference Publications

- [C1] Kyriakos D. Tsoukalas, **George P. Kontoudis**, and Kyriakos G. Vamvoudakis, "Active-Bayesian Learning for Cooperation Connectivity in Dynamic Cyber-Physical-Human Systems," *IEEE Symposium on Adaptive Dynamic Programming and Reinforcement Learning (ADPRL)*, Honolulu, USA, 2017. (invited paper)
- [C2] George P. Kontoudis, Minas Liarokapis, Agisilaos G. Zisimatos, Christoforos I. Mavrogiannis, and Kostas J. Kyriakopoulos, "Open-Source, Anthropomorphic, Underactuated Robot Hands with a Selectively Lockable Differential Mechanism: Towards Affordable Prostheses," *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, Hamburg, Germany, 2015.

Other Publications

- [O1] **George P. Kontoudis**, Minas Liarokapis, Agisilaos G. Zisimatos, Christoforos I. Mavrogiannis, and Kostas J. Kyriakopoulos, "How to Create Affordable, Anthropomorphic, Light-Weight Prosthetic Hands," *Control Systems Lab, National Technical University of Athens*, Athens, Greece, October 2015.
- [O2] Agisilaos G. Zisimatos, Minas Liarokapis, Christoforos I. Mavrogiannis, George P. Kontoudis, and Kostas J. Kyriakopoulos, "How to Create Affordable, Modular, Light-Weight, Underactuated, Compliant Robot Hand," Control Systems Lab, National Technical University of Athens, Athens, Greece, January 2015.

Theses

[T1] **George P. Kontoudis** "Design and Development of an Underactuated, Anthropomorphic Robot Hand," *Diploma Thesis, National Technical University of Athens (NTUA)*, Athens, Greece, March 2016. (In Greek)

TALKS & PRESENTATIONS

· "Open-Source, Anthropomorphic, Underactuated Robot Hands with a Selectively Lockable Differential Mechanism: Towards Affordable Prostheses," *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, Hamburg (Germany), 2015.

SERVICE ACTIVITIES

Reviewer

- · International Conference on Robotics and Automation (ICRA)
- · American Control Conference (ACC)

2018

2018

· International Conference on Intelligent Robots and Systems (IROS)	2018
· International Conference on Biomedical Robotics and Biomechatronics (BioRob)	2018
· Mediterranean Conference on Control and Automation (MED)	2018
· International Journal of Advanced Robotic Systems (IJARS)	2015 - 2016

SKILLS

LanguagesEnglish, Greek(native)Operating SystemsLinux, ROS, Windows

Design and Simulation Software Solidworks, AutoCAD, ANSYS, Slic3r, ProCAST, PSpice, Cura

Programming Pyhton, C/C++, MATLAB, HTML/CSS, LATEX

Other Skills Laser cutting, 3D printing

RELEVANT COURSEWORK

Robotics Advanced Experimental Robotics, Bayesian Robotics, Motion Planning Analysis

Control Theory Optimization Techniques, Cyber-Physical Systems & Distributed Control, Nonlinear Systems Theory,

Linear Control Theory, Adaptive Control Systems

MEMBERSHIPS & SOCIETIES

WIEWDERSTIFFS & SOCIETIES	
Memberships	
· IEEE - Student Member	2015 - Present
· ASME - Student Member	2016 - Present
Societies	
· IEEE - Robotics and Automation Society (RAS)	2015 - Present
· IEEE - Control Systems Society (CSS)	2017 - Present