Anastasios **Kontaxoglou**

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Education

The University of Tokyo (UTokyo) — *Tokyo, Japan*

Doctor of Philosophy (Ph.D.) in Aeronautics & Astronautics — *Apr. 2019 - Sep. 2022*

Department of Aeronautics and Astronautics, *Intelligent Space Systems Laboratory (ISSL)*
Supervisor: NAKASUKA Shinichi (`https://www.space.t.u-tokyo.ac.jp/nlab/index_e.html`)
Topic: *"A Multifidelity Simulation Framework for Digital Twin Modelling of Spacecraft"*
Multifidelity thermal analysis for small satellites, using Deep Learning and Finite Element modelling.
Funding: Fully funded by the MEXT Scholarship of the Japanese government.

Hong Kong University of Science and Technology (HKUST) — *Clear Water Bay, Hong Kong SAR*

M.Sc. in Aeronautical Engineering (1-year ; 60 ECTS) — *Sept. 2017 - Nov. 2018*

in partnership with *Ecole Nationale de l'Aviation Civile (ENAC)*
Final GPA: 3.52/4
Thesis: *"Constructal Law Analysis of Orbital Launch Vehicles"*
Allometric rules for orbital launch vehicles. Future trends prediction.

National Technical University of Athens (NTUA) — *Athens, Greece*

Diploma in Electrical and Computer Engineering (B.Sc. & M.Sc. 5-year joint degree ; 300 ECTS) — *Oct. 2011 - July 2017*

Concentration: Systems and Electronics
Minor: Biomedical Engineering
Thesis: *"Uncalibrated Robot Visual Servoing"*
Robotic manipulator-camera system with unknown parameters, backstepping logic, adaptive control & higher order neural networks.

Experience

BETA CAE Systems Japan — *Tokyo, Japan*

Internship — *Nov. 2020 - Dec. 2021*

Website: `https://www.beta-cae.jp`
Responsibilities: Used ANSA Pre-processor to treat car models, built plug-ins for meshing and kinetics, tested new ANSA tools. Python was used for most simulations.

Orio Consulting L.P. — *Athens, Greece*

Internship — *June 2015 - Nov. 2015*

Supervisor: Dimitris Papanastasopoulos MSc, PhD, DIC (`http://www.orio.gr/`, orio@orio.gr)
Responsibilities: CAD design, contributed to the electromechanical aspect of a road junction, assisted in a hotel's photovoltaic installation.

Skills

Control Engineering	Robotics - Control/Kinematics, Attitude Control, Non-linear Control, Optimal Control Physiological Systems' Control
Aeronautics & Astronautics	Propulsion, Aerodynamics, Fluid Dynamics, Thermal Simulation
Machine Learning	Neuro-Fuzzy Control, Deep Neural Networks, Pattern Recognition
Electronics	Analogue Electronic Systems, Electronic Packaging, Logic Design of Digital Systems, VLSI
Software Tools	Python, Pytorch, Keras, PSpice, MATLAB / Simulink, C/C++, OrCAD, LaTeX, Microsoft Office
Soft Skills	Willing to learn & ability to work in a multicultural environment, ideally suited for a multinational company.

Languages & Awards

Greek	Native Proficiency
English	Full Professional Proficiency
Japanese	Pre-Intermediate Proficiency (JLPT N4)