



# Anastasios Kontaxoglou

Chelidonous 37, Kifisia, Athens, Greece, 14564

☎ (+30)6949493541 | ✉ a.kontaxoglou@gmail.com | 🏠 akontaxoglou.github.io/

## Education

### The University of Tokyo (UTokyo)

DOCTOR OF PHILOSOPHY (PH.D.) IN AERONAUTICS & ASTRONAUTICS

Tokyo, Japan

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](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)

M.Sc. IN AERONAUTICAL ENGINEERING (1-YEAR ; 60 ECTS)

Clear Water Bay, Hong Kong SAR

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)

DIPLOMA IN ELECTRICAL AND COMPUTER ENGINEERING (B.Sc. & M.Sc. 5-YEAR JOINT DEGREE ; 300 ECTS)

Athens, Greece

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

INTERNSHIP

Tokyo, Japan

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.

INTERNSHIP

Athens, Greece

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)