

# Anastasios Kontaxoglou

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## Education

### The University of Tokyo (UTokyo)

Tokyo, Japan

DOCTOR OF PHILOSOPHY (PH.D.) IN AERONAUTICS & ASTRONAUTICS (INCLUDING 6 MONTHS AS A RESEARCH STUDENT)

Apr. 2019 - Sep. 2022

in collaboration with *Japan Aerospace Exploration Agency (JAXA)*

**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.

**Scholarship:** 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

### Intracom Defense S.A. (<https://www.intracomdefense.com>)

Athens, Greece

SYSTEM SAFETY ENGINEER

May 2023 - May 2024 (1 year & 1 month)

#### Responsibilities:

- Working on the Low Observable Tactical Unmanned System (LOTUS) tactical UAV project, co-funded by the European Defence Industrial Development Program (EDIDP) and national MODs.
- Contributed to the aircraft's function decomposition.
- Performed FHA, FTA, CCA, PASA, PSSA on the LOTUS UAV based on ARP4761 and ED279.
- Determined subsystem DALs to support ARP4754A process.
- Contributed to LOTUS airworthiness (AEP4671) and interoperability (STANAG4586) requirements.
- Contributed to system integration.
- Used SCADE Architect and Medini Analyze by ANSYS for system design and safety analysis.
- Collaborated daily with international partners for project coordination.
- NATO/EU/GR Secret

### BETA CAE Systems Japan (<https://www.beta-cae.jp>)

Yokohama, Japan

INTERNSHIP

Nov. 2020 - Dec. 2021 (1 year & 2 months)

**Responsibilities:** Used ANSA Pre-processor to treat vehicle models, built plug-ins for meshing and kinetics, tested new ANSA tools. 3D modelling, kinetics and CFD. Python was used for most simulations.

## Skills

<b>Systems Engineering</b>	Safety Analysis: FHA, PSSA, FTA, CCA, FMEA ; Requirements Engineering
<b>Aeronautics &amp; Astronautics</b>	Aircraft Structures, Composites, Propulsion, Aerodynamics, Fluid Dynamics, Thermal Simulation
<b>Control Engineering</b>	Robotics - Control/Kinematics, Attitude Control, Non-linear Control, Optimal Control
<b>Software Tools</b>	Medini Analyze, SCADE Architect, Pytorch, Keras, MATLAB / Simulink, C/C++, OrCAD, $\LaTeX$ , Microsoft Office
<b>Soft Skills</b>	AGILE, Willing to learn & ability to work in a multicultural environment.

## Languages & Awards

<b>Greek</b>	Native Proficiency
<b>English</b>	Full Professional Proficiency
<b>Japanese</b>	Pre-Intermediate Proficiency (JLPT N4)