

Nikolaos Manthatis

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Education

Aristotle University

Diploma in Mechanical Engineering, 8.19/10
Laboratory of Machine Dynamics.

Thessaloniki, Greece

SEP 2014– JUL 2020

RWTH University

Exchange Semester
Robotic Systems Engineering M.Sc.

Aachen, Germany

SEP 2018– MAR 2019

Topics of interest: Control Theory, Robotics, Machine Dynamics, UAVs

Diploma Thesis

Title: *Non-Linear Model-Based Control of a Tricopter.*

Supervisor: Professor P. Seferlis.

Description: Aircraft modelling. A non-linear controller development by using the techniques of feedback linearization and γ -suboptimal control. Implementation by simulations and test flights.

Professional Experience

Research Project

MPU - Multirole Portable Unmanned Aerial Vehicle

Thessaloniki, Greece

SEP 2020– OCT 2021

Task: Design and implementation of autonomous flight control system.

- Smooth Flight Path generation, estimation of External Forces using Kalman Filter
- Control System development, Simulations, implemented on Pixhawk flight controller
- Construction of Test Vehicle, Conducted Flight Tests

Research Project

Prelive - Precise Livestock Management in Milk Bovine Farms

Thessaloniki, Greece

JAN 2021– OCT 2021

Task: Sensor network development for condition monitoring and control.

- microclimate IoT Sensor , Wireless Sensor Network established
- gathered Data Analysis, Principal Component Analysis

Computer skills

Programming Languages: Python, MATLAB/Octave, C, C++.

Operating Systems: GNU/Linux, Microsoft Windows.

Various: Autodesk AutoCAD/Inventor, BETA CAE ANSA/META, Ultimaker Cura, Mathworks Simulink, \LaTeX .

Languages

Greek: Mothertongue

English: Fluent

German, Italian: Basic

Military Service

Engineering Coprs, Greek Army

96th National Guard, Chios ,Greece

NOV 2021 - JUL 2022