University POLITEHNICA of Bucharest

Automatic Control and Computers Faculty,
Computer Science and Engineering Department

BACHELOR THESIS

Unmanned Aerial Vehicles, Formation Flight

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Va multumesc tuturor pentru ajutorul acordat in elaborare

TODO:
SCRIE UN TODO

Abstract

Here goes the abstract about UAV Formation Flight. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean aliquam lectus vel orci malesuada accumsan. Sed lacinia egestas tortor, eget tristique dolor congue sit amet. Curabitur ut nisl a nisi consequat mollis sit amet quis nisl. Vestibulum hendrerit velit at odio sodales pretium. Nam quis tortor sed ante varius sodales. Etiam lacus arcu, placerat sed laoreet a, facilisis sed nunc. Nam gravida fringilla ligula, eu congue lorem feugiat eu.

TODO:
Write abstract

Contents

Chapter 1

Introduction

BOLD TO REMEMBER

TODO:
WRITE INTRODUCTION CHAPTER (1-2 pag)

1.1 Domain Description

TODO:
Describe the uav domain

1.1.1 Motivation

This thesis presents the **UAV Formation Flight**.

TODO:
Write motivation

1.1.2 Objectives

TODO:
Write objectives

Chapter 2

Related Work

TODO:
Describe related work

We can also have citations like [1].

Chapter 3

UAV Management Platform

3.1 Architecture

TODO:
Describe architecture

3.2 Functionalities

TODO:
describe functionalities

TODO:
Describe management framework

Chapter 4

Formation Flight

4.1 Coordinates Systems

4.1.1 Latitude, Longitude, Altitude

TODO:
describe lla

4.1.2 Earth-Centered, Earth-Fixed

TODO:
describe Ecef

4.1.3 Conversion

TODO:
describe lla-to-ecef

4.2 Formation types

TODO:
describe formation types

4.3 Entering the formation

TODO:
Describe Formation Entering

4.4 Maintaining the formation

TODO:
Describe entering the formation

Chapter 5

Implementation details

TODO:
describe implementation details

5.1   FlightGear

TODO:
talk about fg

5.2   QGroundControl

TODO:
talk about qgc

5.3   MY CODE

TODO:
talk about code, class-diagrams, describe methods, data-structures

Chapter 6

Use cases

TODO:
describe use cases

TODO:
captures of 3 fromations

TODO:
captures of flight-path

TODO:
posible missions

Chapter 7

Conclusions and future work

TODO:
describe c and fw with low priority

TODO:
Add apendixes

Bibliography

[1] ADD BIB.