

# Dissertation Weekly Report

May 22, 2015

Student: Francisco de Babo Martins

Supervisor: Lus Filipe Teixeira

Thesis: *Visual-Inertial based autonomous navigation of an Unmanned Aerial Vehicle in GPS-Denied environments*

---

## 1 Accomplishments

- The development of the localization algorithm is still in progress.
- Floor segmentation in video feeds was accomplished by using the Watershed algorithm.
- The new Drone arrived and the algorithm implementation was resumed.

## 2 Difficulties

- The best approach to identifying the doors based on the pattern of the floor is not yet specified.

## 3 Notes

- A meeting with the supervisor was scheduled for the 25th of May at 16:00 PM.