# Dissertation Weekly Report

*May 15, 2015*

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Supervisor: Lus Filipe Teixeira

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

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## 1   Accomplishments

- Part of the development of the localization algorithm is completed. This approach was based on detecting shapes, meaning that in this case, the rectangles created by the contours of the doors.

## 2   Difficulties

- The localization algorithm is not perfect. Therefore a complementary approach based on the contours of the floor was initiated.

- The new Drone is yet to arrive.

## 3   Notes

- A meeting with the supervisor was scheduled for the 18th of May at 16:00 PM.