

IARC Research Paper

Texas Aerial Robotics

February 25, 2017

Abstract

Texas Aerial Robotics will compete in Mission 7 of the International Aerial Robotics Competition (IARC) in 2017. The goal is to direct Roombas (iRobot Create 2's), known as ground robots, using a quadcopter. We use an Intel stereo camera (put name here) for vision, a Nvidia Jetson for vision processing, and a Pixhawk for controlling the quadcopter.

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1 Introduction

Description of mission with link to rules.

2 Background, Preliminary, and Related Work

Describe history, work, or projects that serve as direct contributors to the subject of your research paper

3 Quadcopter

Vehicle information

3.1 Hardware

Probably have a table for what is what.

3.2 Controls

3.3 Vision

3.4 Business

4 Safety

5 Simulations

6 Conclusion

Hopefully we do well at Georgia Tech! gl hf!

7 Acknowledgements

References