

Agenda CENG 5437/4391 April 19, 2022

See Text on Course Website CH7 & 9 Flying

[Class Textbook ROS Robotics By Example](#)

Chapter 7 Flying Robots

Let's See Some Fun Stuff

The astounding athletic power of quadcopters | Raffaello D'Andrea 16:08

<https://www.youtube.com/watch?v=w2itwFJCgFQ>

Ehang – Flying Taxi

<http://www.ehang.com/ehang184>

UPS Tests Residential Delivery Via Drone

https://www.youtube.com/watch?v=xx9_6OyjJrQ

Adithya shows his stuff!



[Adithya Balaji](#)

<https://www.youtube.com/watch?v=h-UpaKgHc5Y>



[UHCL Center for Robotics Software](#)

Bharadwaj Attluru has developed a ROS program that will control Bebop's flight using an object (like a basketball). The control algorithm keeps the object within the center of Bebop's camera image. This program uses OpenCV and Python.

<https://www.youtube.com/watch?v=Ab3wtKs72sM>

CHAPTER 7 IN TEXTBOOK

Page 313 Quadcopters

<https://en.wikipedia.org/wiki/Quadcopter>



Drone Simulation and Control, Part 1: Setting Up the Control Problem

173,380 views Oct 16, 2018 14:11 MATLAB Tech Talk

<https://www.youtube.com/watch?v=hGcGPUqB67Q>

Drone Simulation and Control, Part 2: How Do You Get a Drone to Hover?

94,891 views Oct 23, 2018 13:22 MATLAB Tech Talk

<https://www.youtube.com/watch?v=GK1t8YIvGM8>

CHAPTER 9 IN TEXTBOOK

FLYING A MISSION WITH CRAZYFLIE

<https://hub.packtpub.com/using-ros-uavs/>

