

Introduction to ROS and UAV Operating System

Brad hy Lee

Department of Industrial and Systems Engineering
KAIST, South Korea

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Presentation Overview

Introduction to AR Drone

- AR Drone specs
- Availability of AR Drone

Introduction to ROS

- Structure of ROS
- Advanced applications

Present Research

Future Tasks

Introduction to AR Drone

AR Drone specs

*Availability of
AR Drone*



Size: 77.7 x 38.3 x 12.5mm

Weight: 31 g

Accuracy: +/- 2 m

Frequency: 5Hz

Voltage: 5V

Memory: 4GB

Introduction to AR Drone

AR Drone specs

Availability of AR Drone

Wide Camera Work



HD Camera



High Compatibility



Nvidia Shield console



Epson Moverio display



Thalmic Myo armband



Zeiss Vision Cinemizer
OLED glasses

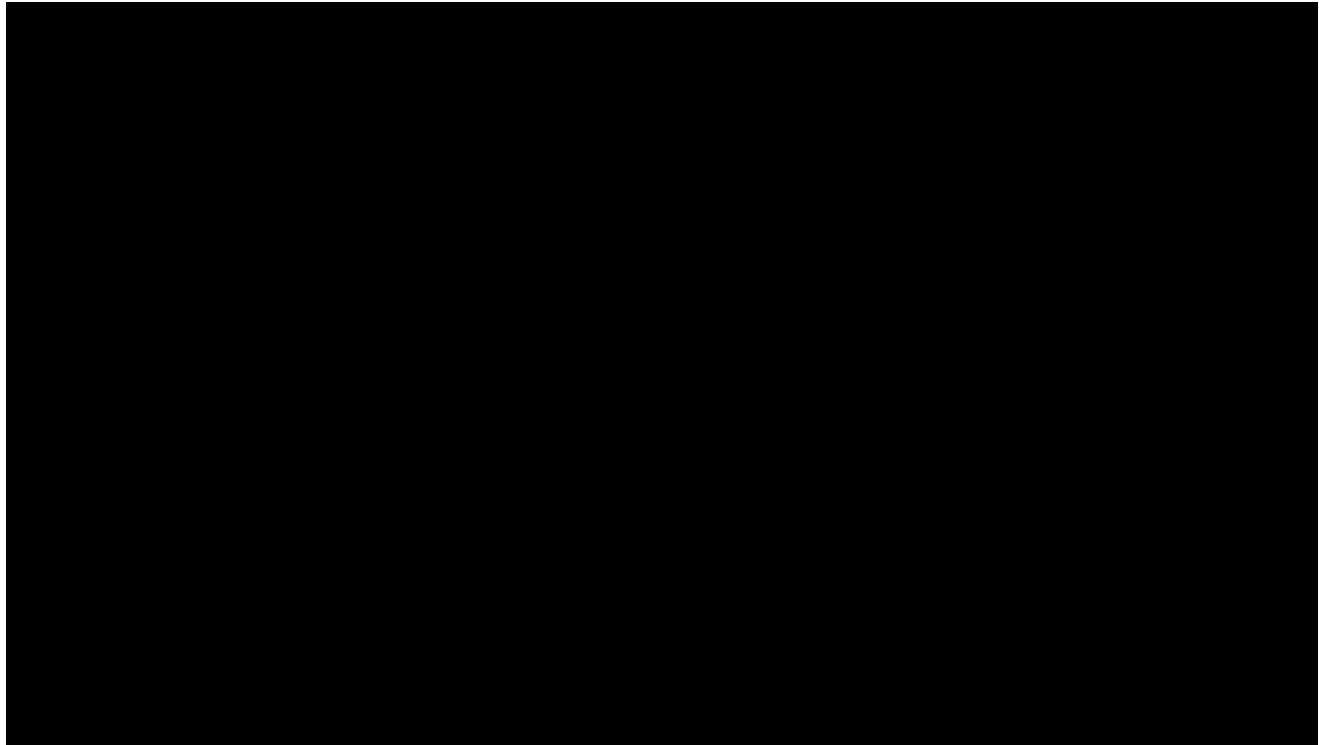


Microsoft Surface 2

Introduction to AR Drone

AR Drone specs

*Availability of
AR Drone*



Introduction to ROS

Structure of ROS

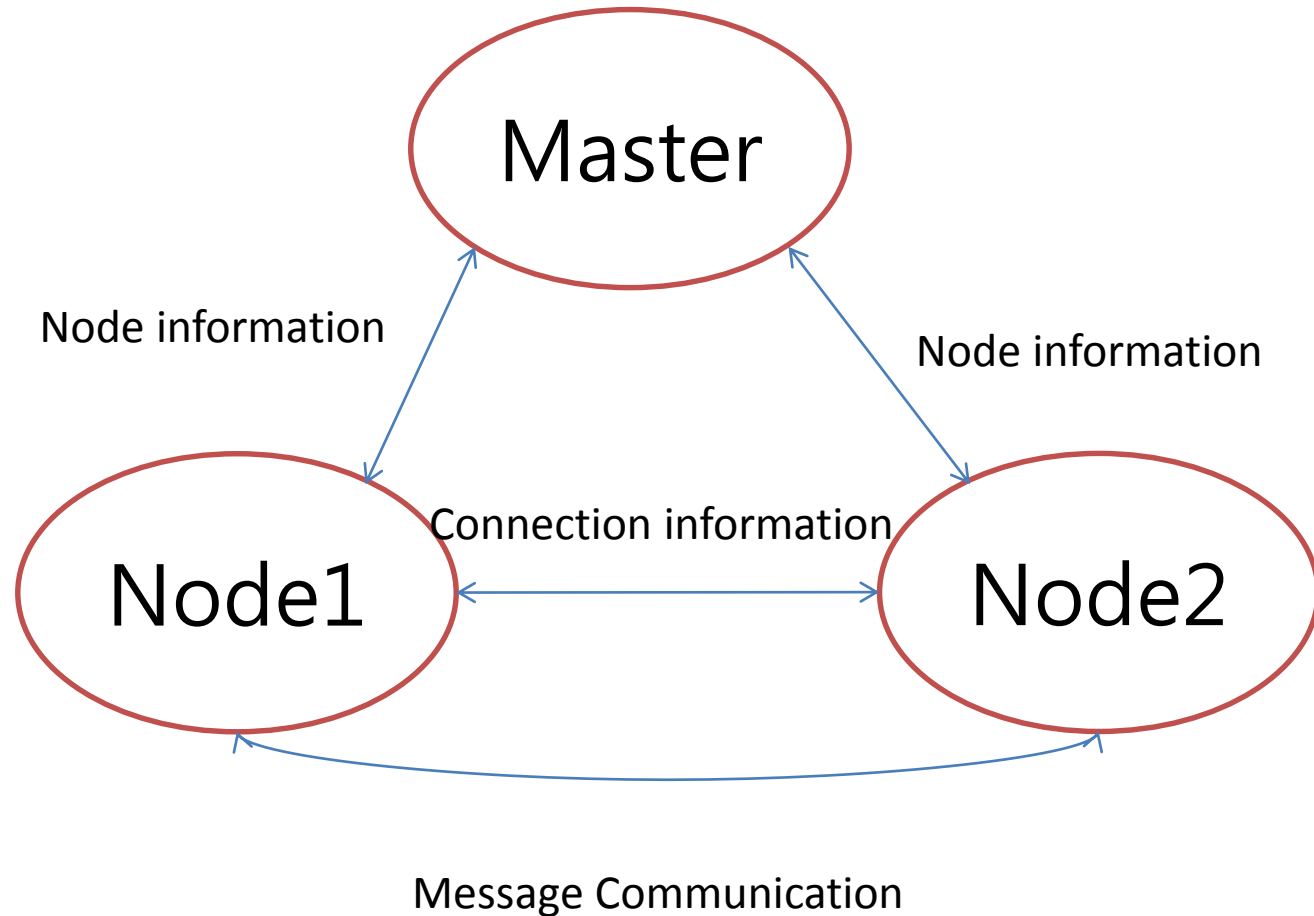
*Advanced
applications*



Introduction to ROS

Structure of ROS

Advanced applications

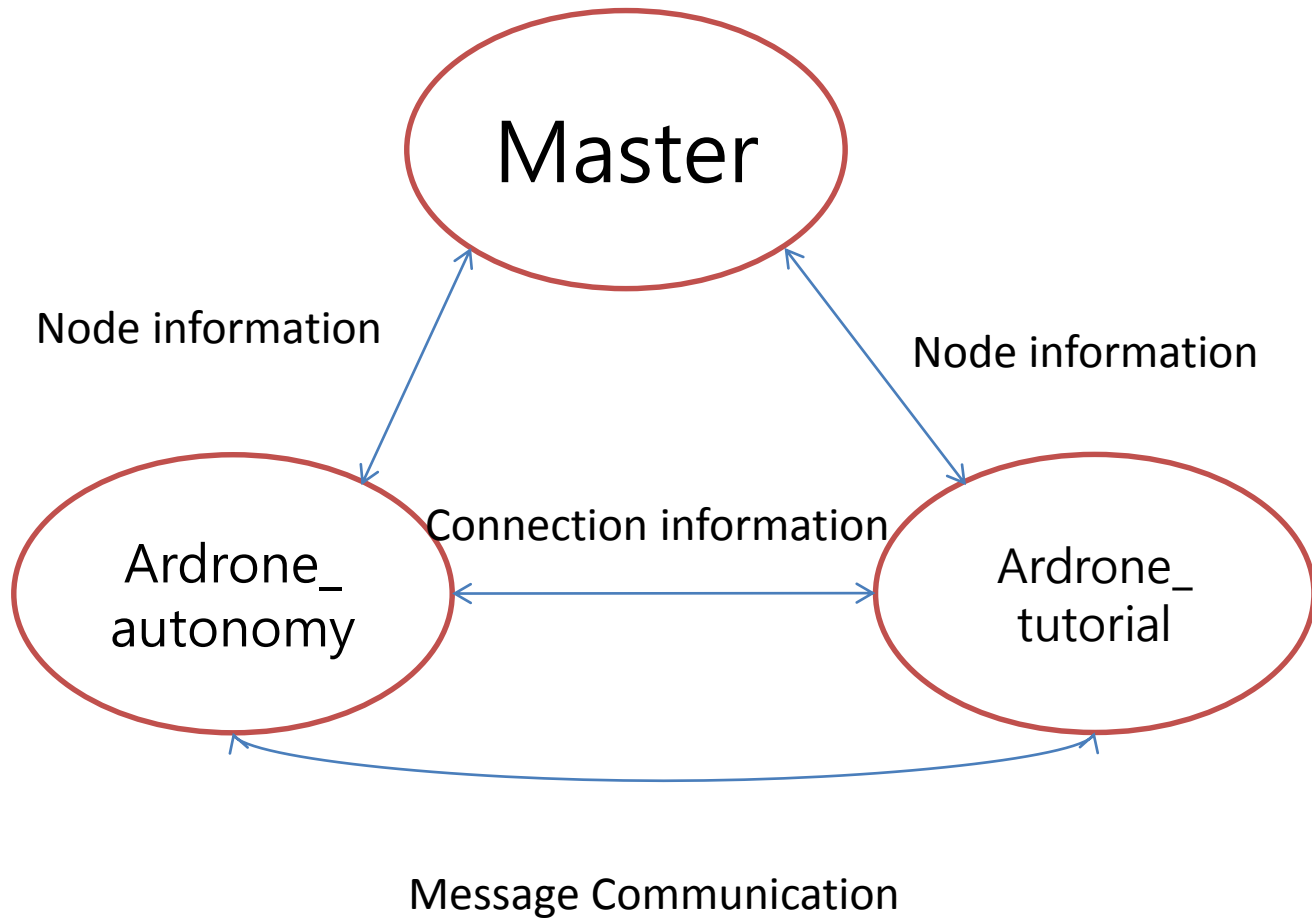


Introduction to ROS

Structure of ROS

Advanced applications

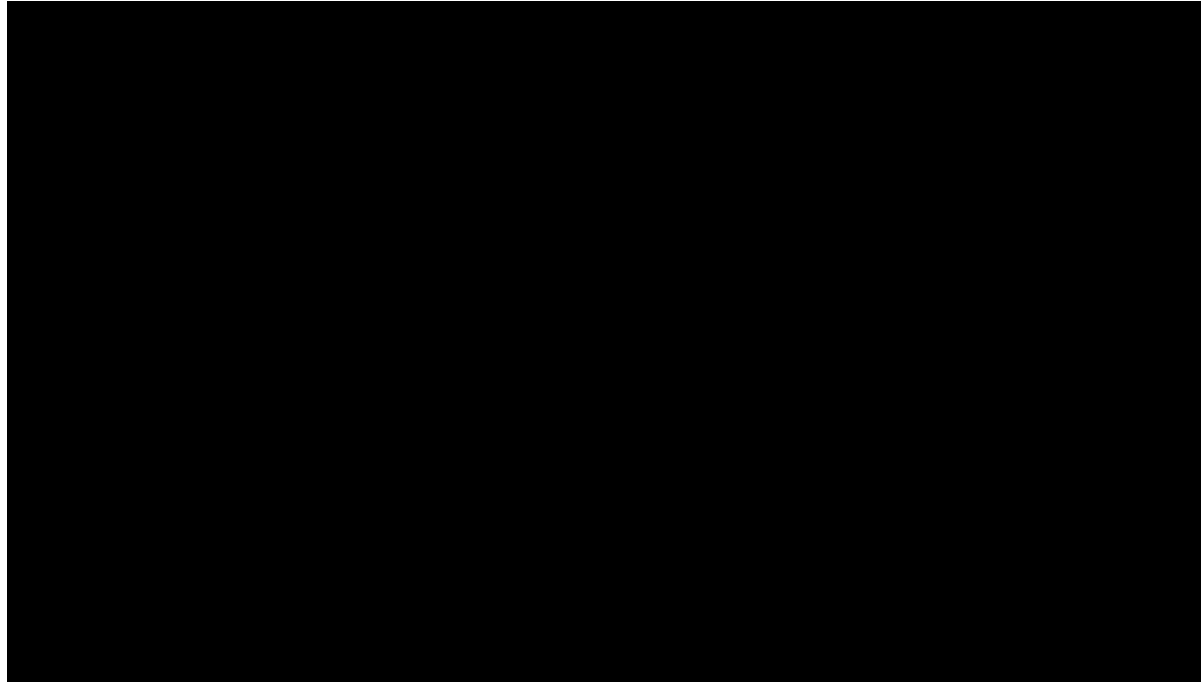
ROS Structure for Ardrone



Introduction to ROS

Structure of ROS

***Advanced
applications***



Present Research

Study Linux, ROS, C++ and Python

- Understand ROS
- Find and try several open sources

Modify codes of open sources

- Operate several steps by one command
- Detecting image

Future Tasks

Solve network problems

- Keep trying to find solution

Develop our own driver

- Make structure of Ardrone driver
- Translate codes to python
- Build functional nodes and packages

Introduction to ROS and UAV Operating System

Thank you!