

DEVELOPMENT SETUP

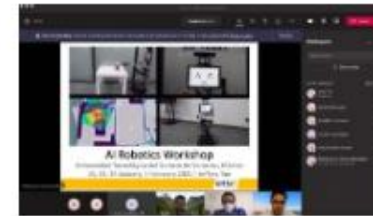
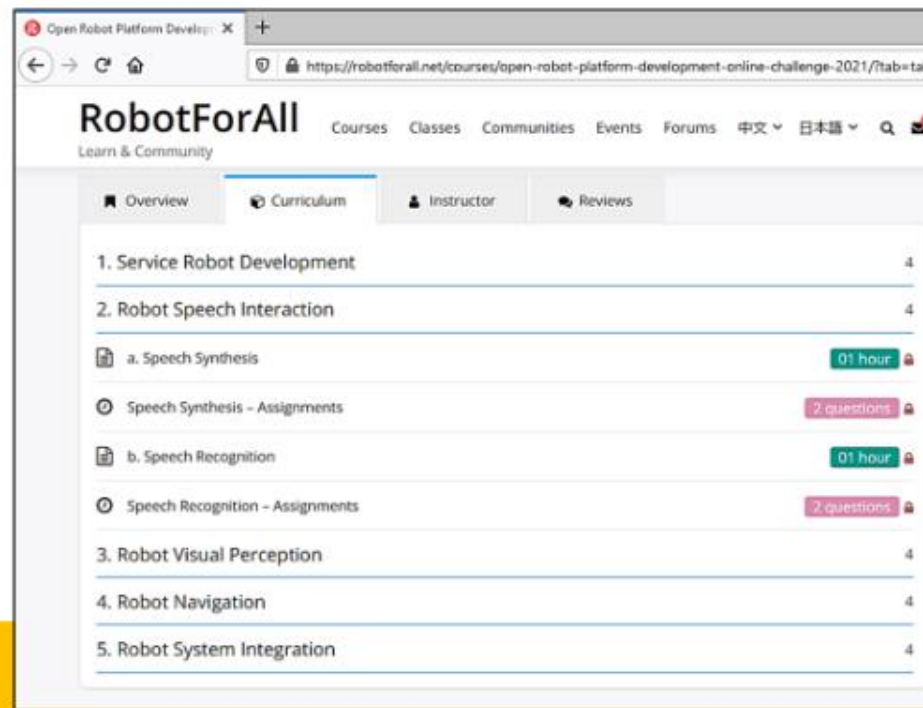
Development Setup

Jupiter Robot + RobotForAll

Workshop Course

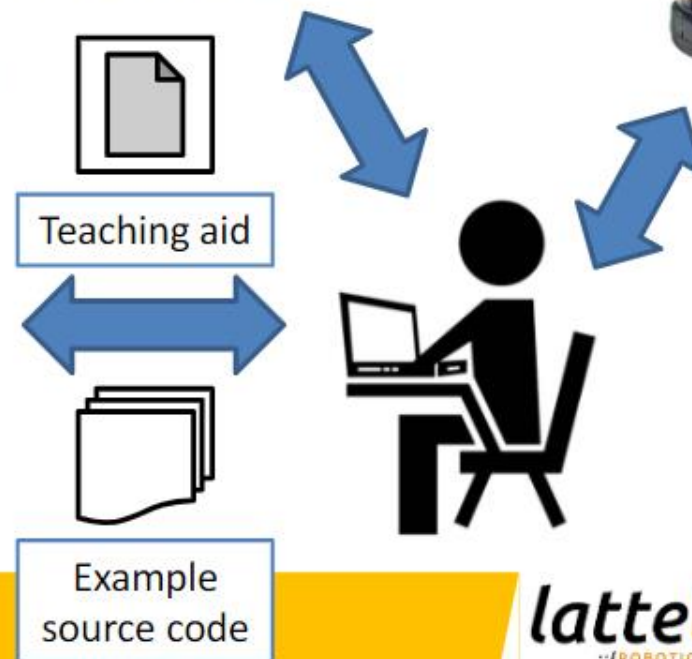
<https://robotforall.net/courses/aastmt-ai-robotics-workshop/>

RobotForAll
Courseware & Study Group



MS Teams

Jupiter
Robot



Jupiter Robot – Hardware

- A. Robot **LEG**
 - Autonomous Navigation
- B. Robot **EYE**
 - Visual Perception
- C. Robot **ARM**
 - Object Manipulation
- D. Robot **MOUTH & EAR**
 - Human-Robot Interaction
- E. Robot **BRAIN**
 - AI, Machine Learning, Cloud Computing, Big Data



Jupiter Robot – Software Environment

- Ubuntu 18.04.5 LTS (Bionic Beaver)
 - <https://releases.ubuntu.com/18.04/>
- ROS Melodic
 - <http://wiki.ros.org/melodic/Installation/Ubuntu>
 - ROS Tutorials: <http://wiki.ros.org/ROS/Tutorials>
- TurtleBot2
 - <http://wiki.ros.org/Robots/TurtleBot>
- RoboCup@Home Education OpenCourseWare
 - <https://www.robocupathomeedu.org/learn>
 - <https://github.com/robocupathomeedu>
- Jupiter Sim Development Environment
 - ROS Workspace: ~/catkin_ws