

Lab 5: UltraSonic Sensor

Individual Report due: Oct 7th 11:59 p.m.

Demo due before: Oct 17th 1:30 p.m.

Assignment Overview

Create a simple radar sensor by using arduino.

Learning Object:

Be able to use a ultrasonic sensor and build its application

Your assignment:

1. (Group: 3 points) Hardware design(servo & sensor)
2. (Group: 4 points) Software design and interface.
3. (Individual: 3 points) Lab report: Your lab report should at least answer the following question:
 - a. How to connect and use a Ultrasonic device correctly.
 - b. How to connect and use a servo motor correctly.
 - c. Talk about problems you met and how you solve them

Submission instruction:

1. For demo, demo as a team, at least one person show up at any section for demo.
2. For report, submit as pdf to the ecampus.

Reference & Resource:

Data sheet: <http://www.micropik.com/PDF/HCSR04.pdf>