

## Week 7 Presentation

- Use this as a guide. Please cover all the points in the rubric. Below includes an example scenario for the presentation.
- Before the presentation, run rehearsal with your teammates to ensure you complete the presentation between 14 min – 15 min.
- Demonstrator will cease the presentation after 16 min.

The presentation may follow the below order

**1<sup>st</sup>** slide: Title with names

**2<sup>nd</sup>** slide: contents

**3<sup>rd</sup>** slide: explain main objectives

ex) learn the basic operation of Servo motors and ultrasonic sensors

Able to plot the 2D Matlab

**4<sup>th</sup>** slide: Technical explanation of :

- System diagram
- High-level explanation
- Matlab code
- Arduino code

**5<sup>th</sup>** slide: Technical explanation of servo:

- How the hardware works in terms of the signal timing
- Calibration graph (Clarify calibration graph if it is the servo, motor or other)
- Calibration process explanation

**6<sup>th</sup>** slide: Technical explanation of range finder:

- How the hardware works in terms of the signal timing
- Calibration graph
- Calibration process explanation

**7<sup>th</sup>** slide: show the 2D mag of object plot

Live demonstration

**8<sup>th</sup>** slide: suggest what can improve the result in terms of accuracy, precision, angle resolution, speed, etc

**9<sup>th</sup>** slide: Implement any idea that is discussed on the previous page, show the improvement.

**10<sup>th</sup>** slide: summarize your result scientifically (numeric + explanation)