

**MSOE
EECS
EE-2931-Johnson**

Project Compliance Requirements

The system must have the following subsystems:

- Power subsystem
- Display subsystem
- Motor subsystem
- Line sensing subsystem
- Distance (obstacle detection) sub system

For the project compliance testing, we will primarily test the following:

- System physical compliance
 - Size
 - Weight
- Sub/System compliance
 - Electrical compliance
 - Power system
 - Voltage
 - Display subsystem
 - Display message
 - Motor subsystem (mobility)

(If you design a debug program your program must be able to perform each of the features below)

 - Start
 - Delay (5 second)
 - Move forward (each motor)
 - Move backward (each motor)
 - Turn left (both motors at same time)
 - Turn right (both motors at same time)
 - Stop (both motors at same time)
 - Sensing subsystem
 - Line sensing (each sensors)
 - Obstacle sensing (each sensor)
- System behavioral compliance:

(If you design a debug program your program must be able to perform the behavior below)

 - Line sensing, stop, turns (in the ring)
 - Obstacle sensing, stop, move (in the ring)

Requirements:

- Set up and ready at the start of your time slot
- **Have the followings documents at the beginning of the test session.**
 - Your test plan report.
 - A printed copy of your program (implement all system's behavior) with your name embedded in the program as the designer.
 - A printed copy of the system block diagram.
 - A printed copy of the system schematic diagram.
 - A printed copy of your blank compliance grading chart to complete during the test session
- Be ready to answer questions related to your robot (design, hardware, software).