

## **ME-GY 7943**

### **Network Robotic Systems, Cooperative Control and Swarming**

Project:

The goal is to simulate the control of 6 wheeled robots in PyBullet (a physics simulator) that need to navigate an environment. The robots should:

1. Create a square formation in the original arena
2. Switch to a different formation to cross the narrow passages. In all formations, keep at least 1m between each robot
3. Navigate through the environment, avoid obstacles and reach the goal
4. Create a triangle formation once the goal has been reached