

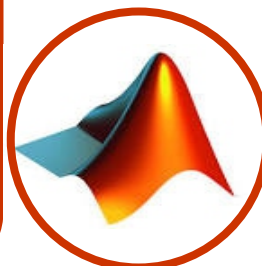
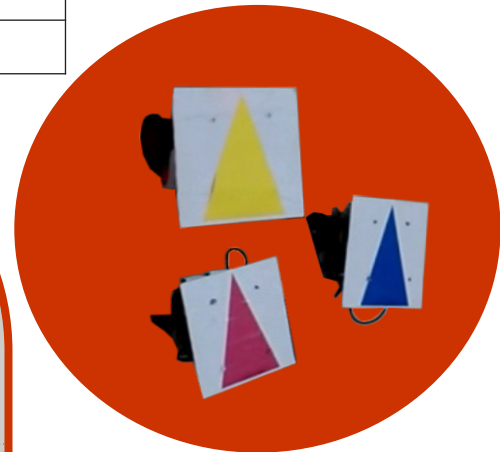
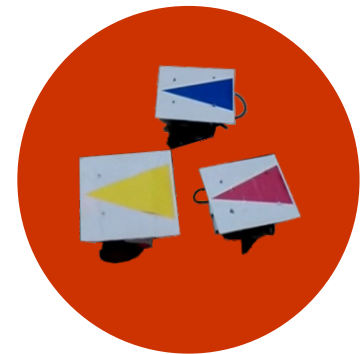
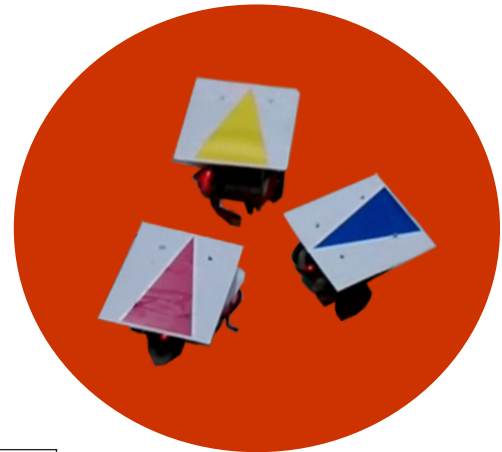
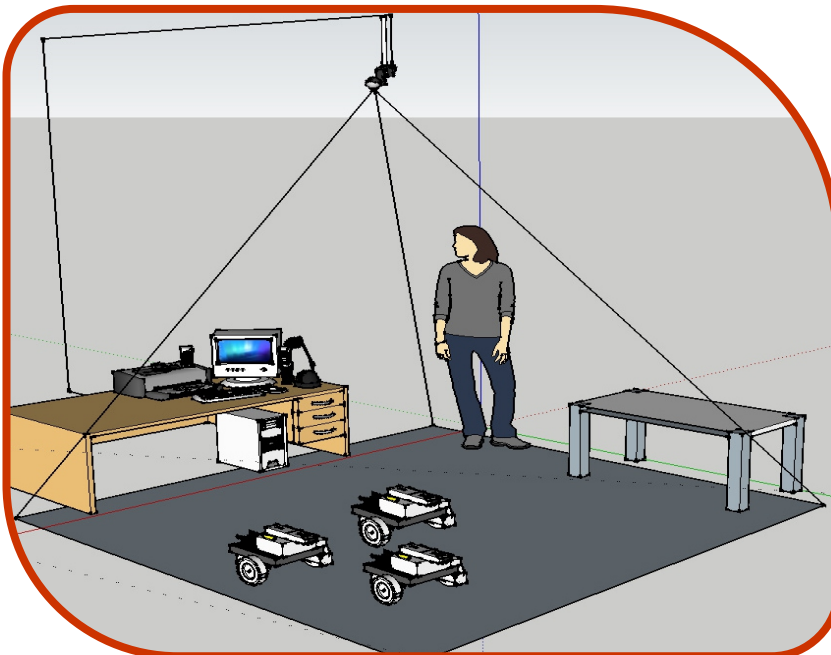
# SWARM ROBOTICS

## INTRODUCTION

- Swam robots are a group of small robots which work collectively . And take feedback from camera to correct its path.
- It was given a matlab interface to connect camera and a wireless interface On zigbee protocol to control various robots from a main co-ordinator.
- It can also be called as wireless robot network because based on the commands Of the co ordinator all the robots in the network are moving.

## ROBOT SPECIFICATION

S.No	Parameter	Features
1	Controller	Arduino
2	Wireless	Xbee
3	Motors	Beo motors
4	Sensors	Ir sensor, ultra sonic
5	Communication protocol	Zigbee protocol
6	Pcb	On board zigbee,bluetooth connection, Sevrvo connectors,i2c connectors
7	Usb camera	Logitech 5-megapixel
8	Software	Matlab
9	Tool box	Image processing Data acquisition



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