

Lab Challenge 2 – Part 2

Multi-Sensor Autonomous Control

In this challenge lab you will design and implement software to autonomously move the robot through a set of pre-defined challenges.

LEARNING OUTCOMES

Upon successful completion of this challenge lab, you will have demonstrated the ability to:

- Demonstrate an understanding of robot sensors
- Implement the autonomous sensor control (detection and reaction)
- Use multiple sensor devices simultaneously in a single autonomous application

SPECIFICATIONS

Your task is to write an autonomous software application using RobotC that will successfully perform the objectives in Part A and Part B:

Part A)

Create the following Maze (use appropriate dimension)

Choose an appropriate l , d , δd , δl and assume that $\delta l < l$ and $\delta d < d$ SOLVE the MAZE!

Assume that the robot has no information about the Maze.

All of the steps shall be done autonomously and with no pre-planned movement.

