**Executive Summary**

In this project, our company needs to design a robot that will move in a queue with other robots. This robot is supposed to follow the robot that is at the front. There is also another criterion which robot needs to satisfy. The robot will receive a signal from the user and leave the line. After completing this action, it also needs to detect where the other robots are going and rejoin the line at the back. In addition, other robots need to fill the gap which the leaving robot leaves without changing the order of the line.