

## ABSTRACT

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*The robot movement has important role for the floor cleaner robot to set the robot component, such as speed and acceleration. The floor cleaner robot is set to be following the set pattern with motion control. This floor cleaner robot or Roner (Robot cleaner) moved automatically with Arduino as the mind robot. This robot moved forward if its found any obstacle in front and left then will turn right automatically 90 degrees. Otherwise this robot moved forward if its found any obstacle in front and right the will turn left automatically 90 degrees. From the explanation above we can conclude that this floor cleaner robot can work properly with its work. This robot moves using DC motor or omni wheels motor. This robot sets its movement in Degree off freedom fuse or (DOF) in cleaning floor in one room. The robot has four condition i.e. forward, ,turn left, turn right and rotation with duty cycle PWM 20-100%*

*Keywords: Motor omni wheels, Motion Control, obstacle, arduino, duty cycle*