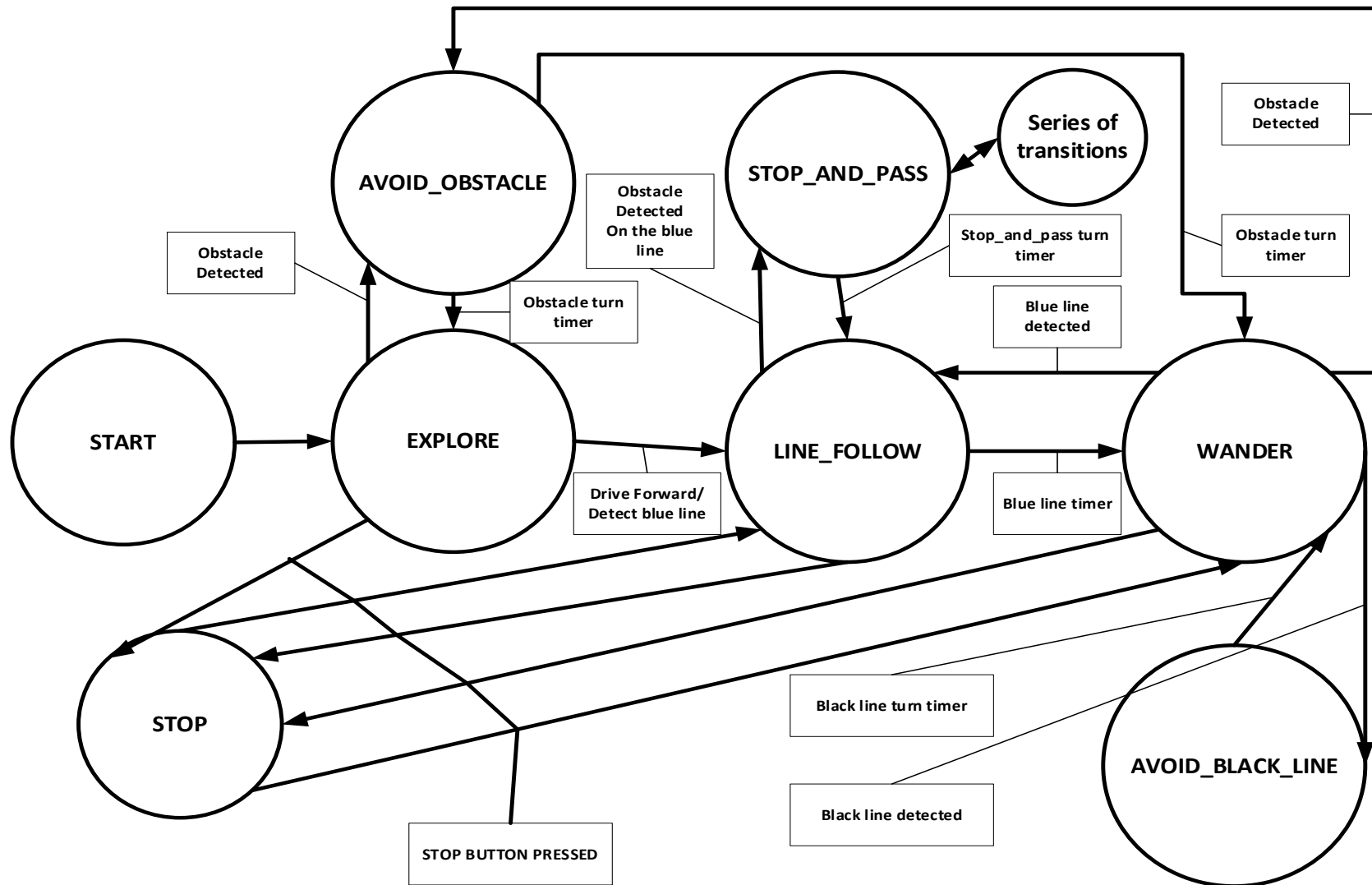


# Robot Control Architecture Diagram



The robots start with the EXPLORE state, drives forward and detect the blue lines. It also uses the AVOID\_OBSTACLE behaviour in this state.

If the robots detect objects in their path during EXPLORING, they deflect and pass safely with the AVOID\_OBSTACLE.

The LINE\_FOLLOW allows the robots to follow the blue line, if any object obstruct or the two meets, they pass each other safely using the STOP\_AND\_PASS behaviour involves series of transition and states.

When the LINE\_FOLLOW time elapses, the WANDER state is activated and in the WANDER state, the robots AVOID\_OBSTACLE and also AVOID\_BLACK\_LINE are both used in this state.