Lift State Machine Diagram
V 2.0

Stop

Wake up from
idle period

If destination array have true
and the destination is not the lift
currently stay

Moving

Wake up from
idle period

If destination array are all false
Idle

Loading

Wake up from new request
interruption

if current location is not the
destination
Moving Up

Wake up from
idle period

Wake up from
loading period

Wake up after sleep period
from door open

*

*

If not passenger inside
and
destination array are all false

wake up from door close period

Wake up from moving period

Wake up from new request
interruption

if current location is not the
destination

Moving Down

If the same floor
have waiting passengers

Door Closing

Wake up after door
close period

Door Opening

If current location equals
destination location

New passengers from the same
floor

Wake up after door closing
period

If destination array have
element be set true

* means there is not condition like from door opening to loading, loading to door closing