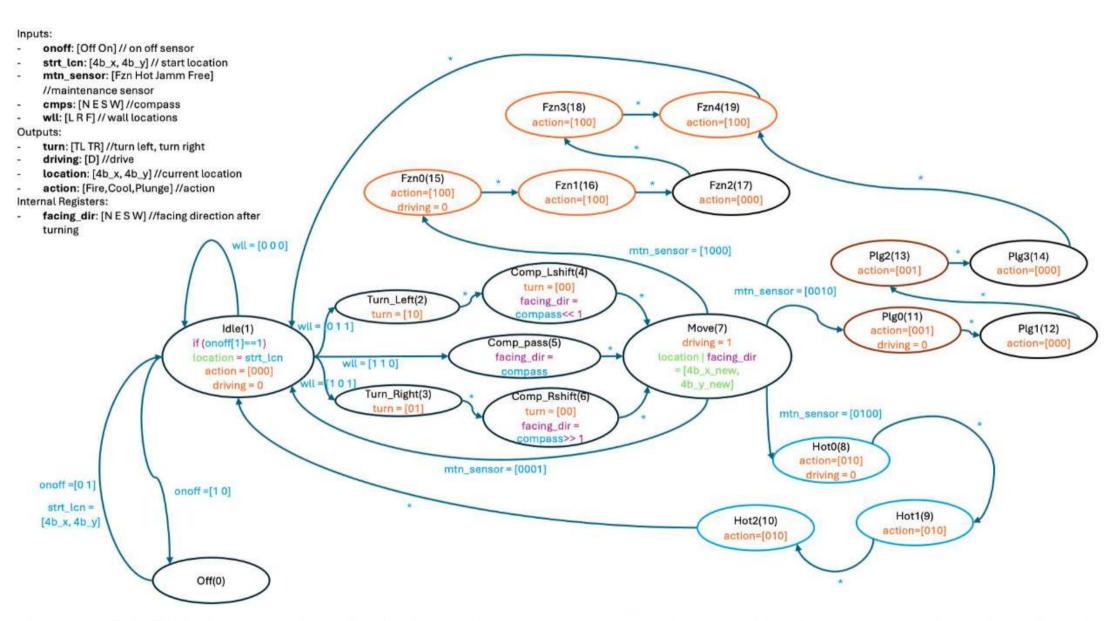
Maintenance requirements

- Orange indicates that Cool maintenance is required.
 - Turn on cooling element for 3 clock cycles. This is achieved through the output bit [Fire, Cool, Plunge], on for 3 cycles.
- Blue indicates that Fire maintenance is required.
 - Since overheating is a problem, you must turn on the heating element for 2 clock cycles, then rest one cycle, then turn on for 2 more cycles, then rest for one cycle. This is achieved through the output bit [Fire, Cool, Plunge]
- Brown indicates that plunging maintenance is required.
 - Toggle plunger for 4 clock cycles. Toggle should follow high, low, high, low.
 This is achieved through the output bit [Fire, Cool, Plunge]. After plunging,
 burn off access garbage by turning on fire for one cycle [Fire, Cool,
 Plunge].



inputs, reg outputs (if a change occurs), transitions, stored in register, output stored in FSM register too, state

Note: shifting operations must have continuous boundaries.

Robot Sensors and Actuators

