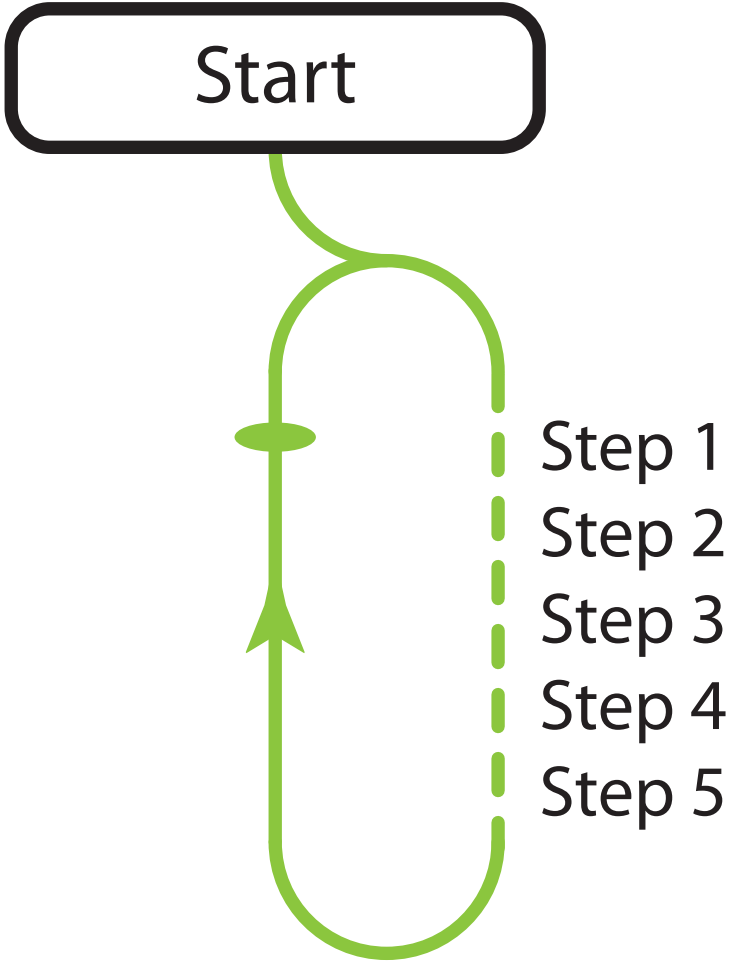
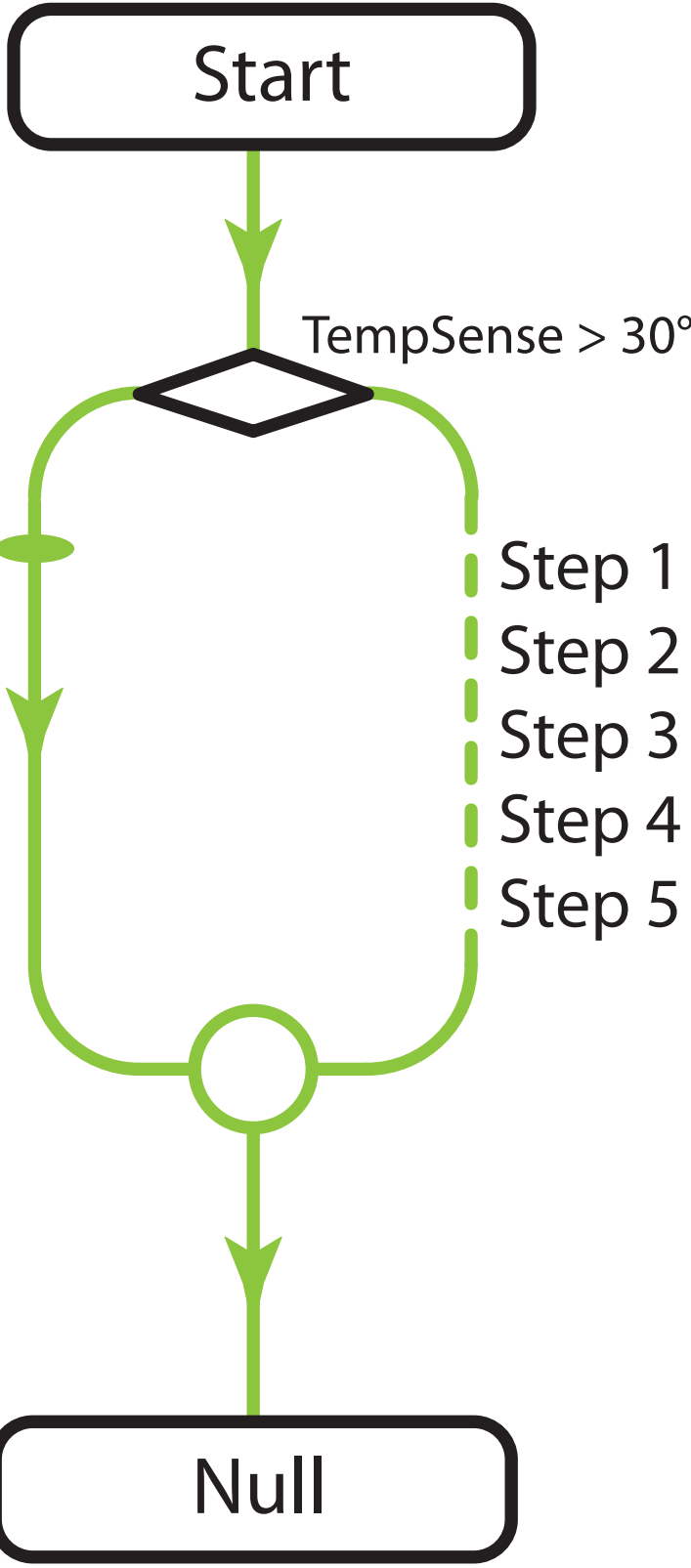
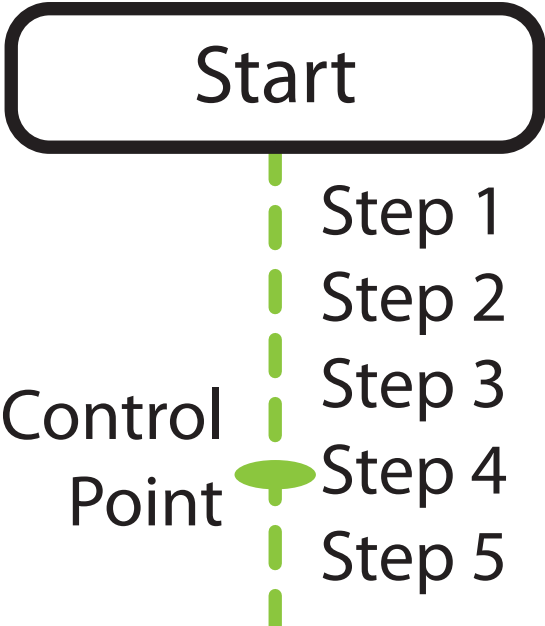


Behavior Models

Version 01

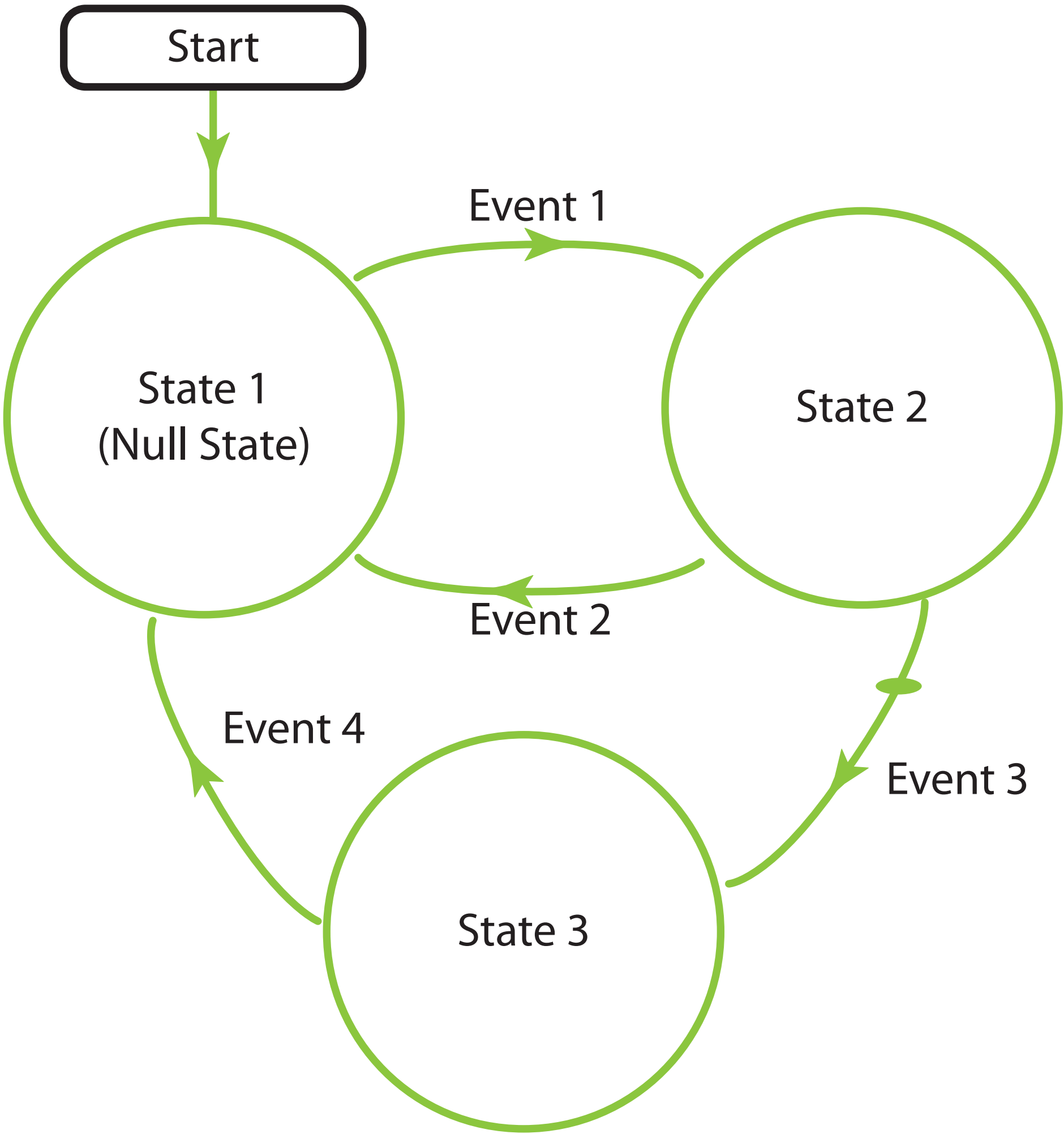


Null Behavior:
The null behavior is when the product is not doing anything. Other names for this are idle, standby, etc.

Sequence:
A sequence is initiated by something and then is just a series of steps. The first step happens first then the second step happens. After the the last step is completed the product goes back to the null behavior.

Logic Control:
A behavior that is built on top of sequences. Logic control determines when certain sequence are run through or not. IF (shown), AND, OR, WHILE, and FOR are examples of this. In this case the Control Point is skips the sequence because TempSense is less that 30°

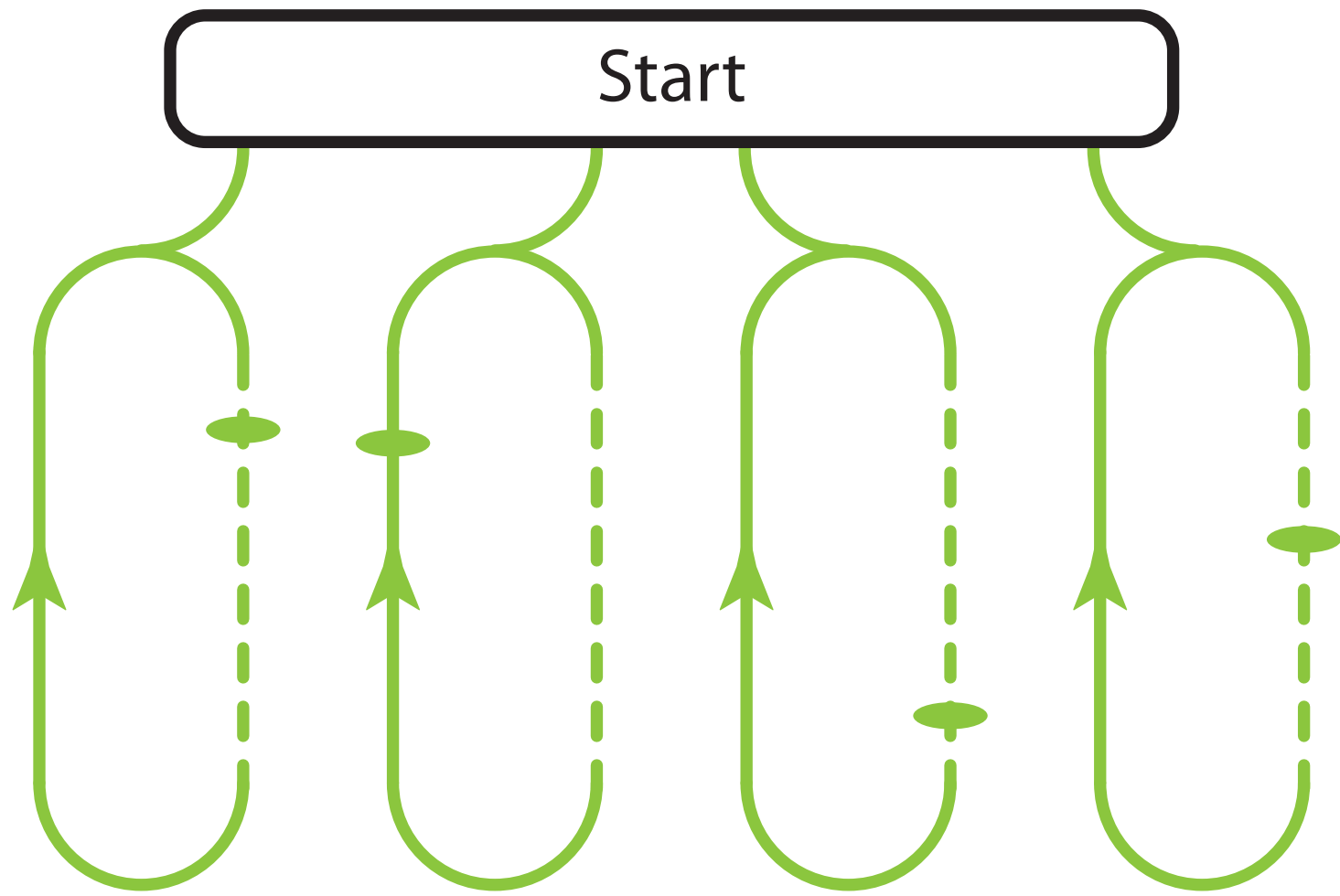
Infinite Loop:
A behavior where the sequence is repeated over and over for all time. The Control Point is show looping back to the beginning of the sequence.



State Machine:
A model that breaks behaviors into to categories. States: Behavior that is persistent over time. Low Battery, BSOD, and OS Boot are examples of states.

Event: Behaviors that do not persist. Button presses, Threshold tests, alarm clocks triggering are examples of events

The Control Point is shown transitioning form State 2 to State three becuae Event 3 has happened.



Multithreading:
This behavior uses multiple infinite loops that operate in parallel.

The power of multithreading comes from the fact that there are multiple Control Points. However, this comes at the cost of greater complexity from concurrency issues.

