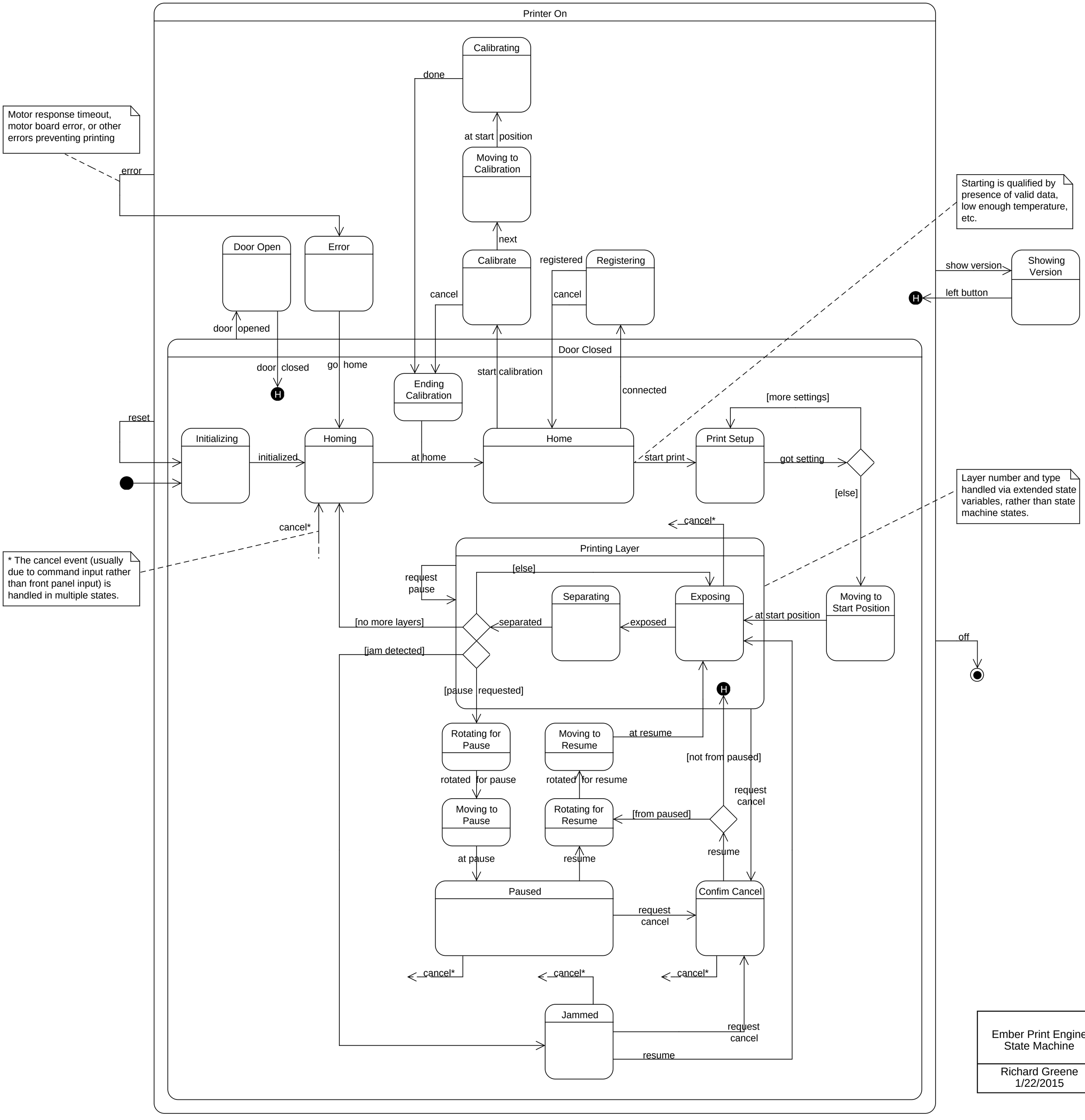
Printer On
Calibrating
done
at start position
Moving to Calibration
next
Calibrate
registered
Registering
cancel
cancel
Motor response timeout, motor board error, or other errors preventing printing
error
Door Open
Error
door opened
Starting is qualified by presence of valid data, low enough temperature, etc.
show version
Showing Version
left button
Door Closed
door closed
go home
Ending Calibration
start calibration
connected
[more settings]
reset
Initializing
initialized
Homing
at home
Home
start print
Print Setup
got setting
[else]
Layer number and type handled via extended state variables, rather than state machine states.
cancel*
cancel*
Printing Layer
* The cancel event (usually due to command input rather than front panel input) is handled in multiple states.
request pause
[else]
Separating
Exposing
Moving to Start Position
[no more layers]
separated
exposed
at start position
off
[jam detected]
[pause requested]
Rotating for Pause
Moving to Resume
at resume
[not from paused]
rotated for pause
rotated for resume
request cancel
Moving to Pause
Rotating for Resume
[from paused]
at pause
resume
resume
Paused
Confim Cancel
request cancel
cancel*
cancel*
cancel*
Jammed
request cancel
resume
Ember Print Engine State Machine
Richard Greene
1/22/2015