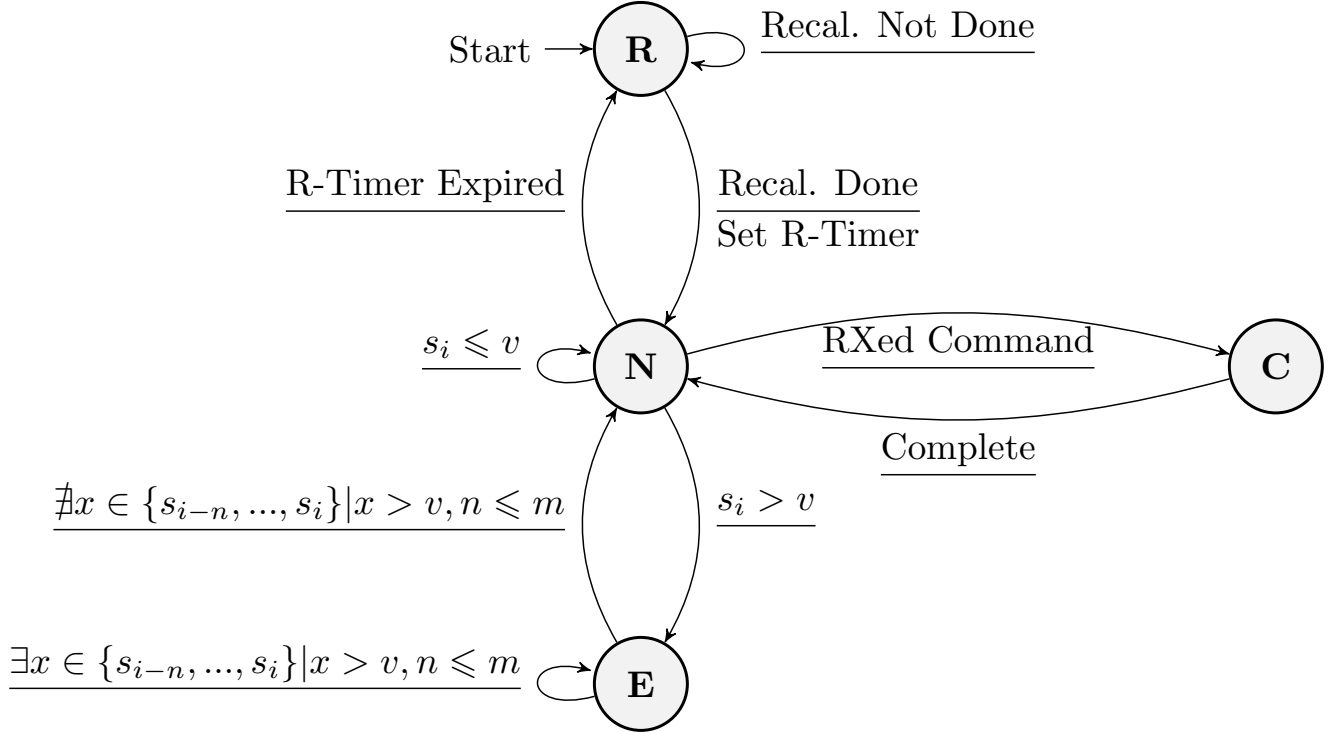# LunaSat State Diagram

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Where
R is the *Recalibration* state,
N is the *No Seismic Event* state,
E is the *Seismic Event* state,
C is the *External Command Execution* state,
v is the calibrated threshold value,
S is the set of all collected data samples,
i is the index of the last data sample,
n is the number of data samples we decide to look back, and
m is the number of samples taken.