The concept:
The robot moves about randomly until its power supply drains. It will then find its way to the recharging station so it can fill itself up, and start the process over again.

Self Recharging Robot

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Random Movement
Oops! Low on power
Go get that battery!
Aah. Recharging.
Here we go again!

The Robot
The capacitor and power gauge simulate the robot’s battery
Recharging Station
The Robot Recharging