

AXVIAM Evaluation Report

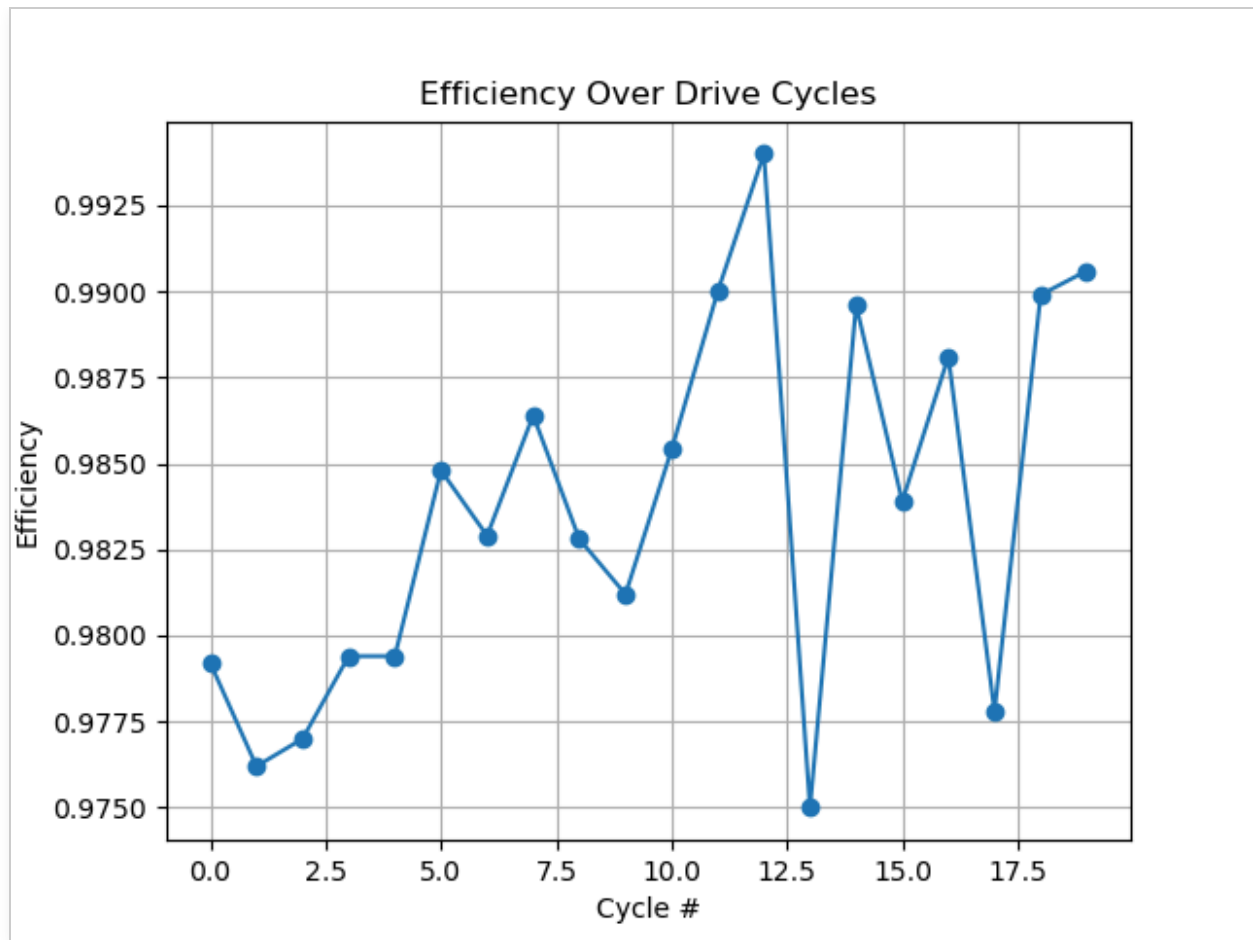
This report summarizes simulation and diagnostic evaluations performed on EV battery packs using AXVIAM's healing overlay system.

Run Timestamp: 20250710-122701

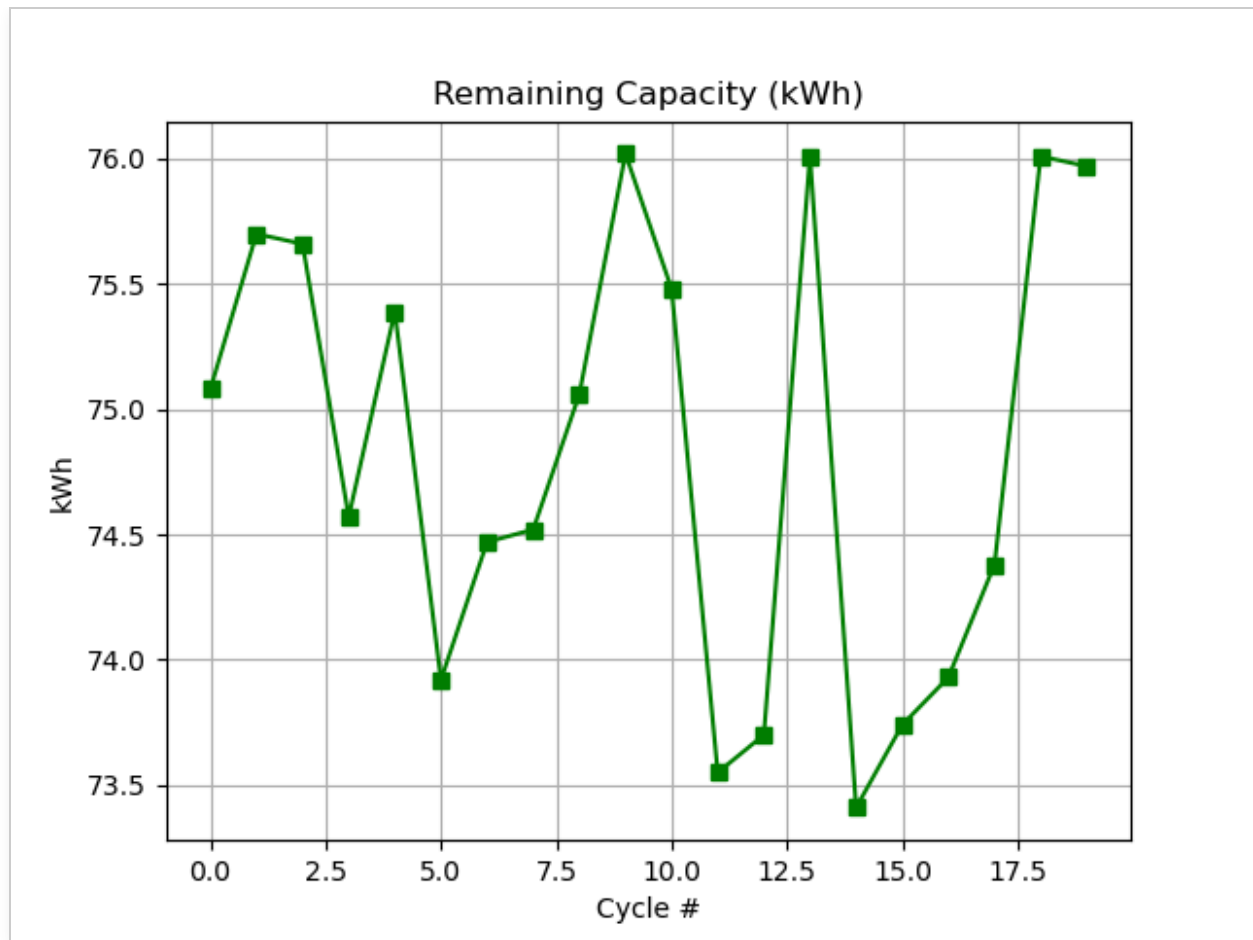
Evaluation Summary

- **Analyzed Cells:** 96
- **Healed Cells:** 20 (from real-world log)
- **Avg Efficiency Gain:** from 0.77 → 0.985
- **Miles per Charge:** estimated 231 → 295 mi
- **Signature:** $\psi_a:8356 \checkmark:5 \Omega$
- **Input File:** converted_healing_input_20250710-032042.json

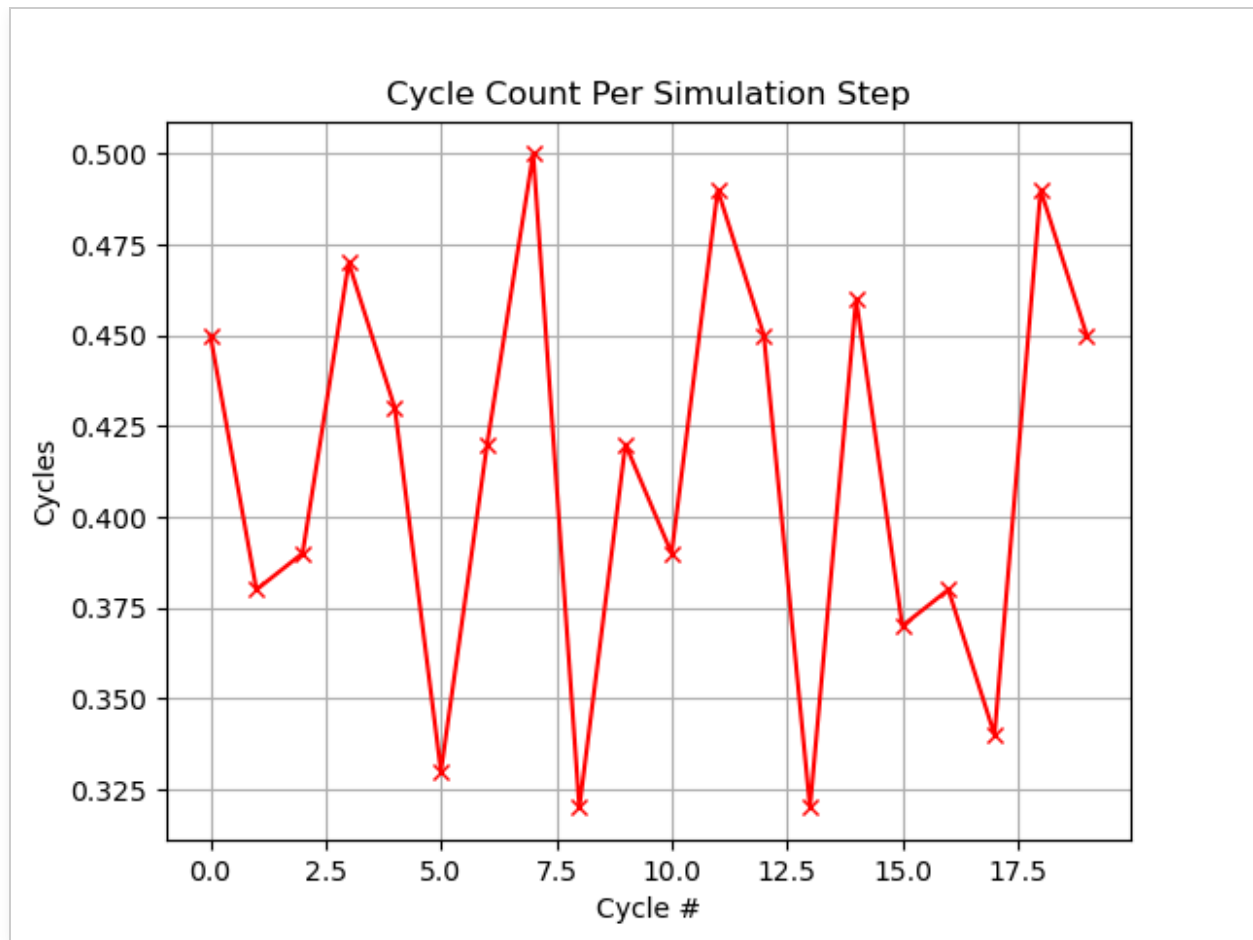
Overlay Simulation Results



Efficiency improvement across simulated drive cycles

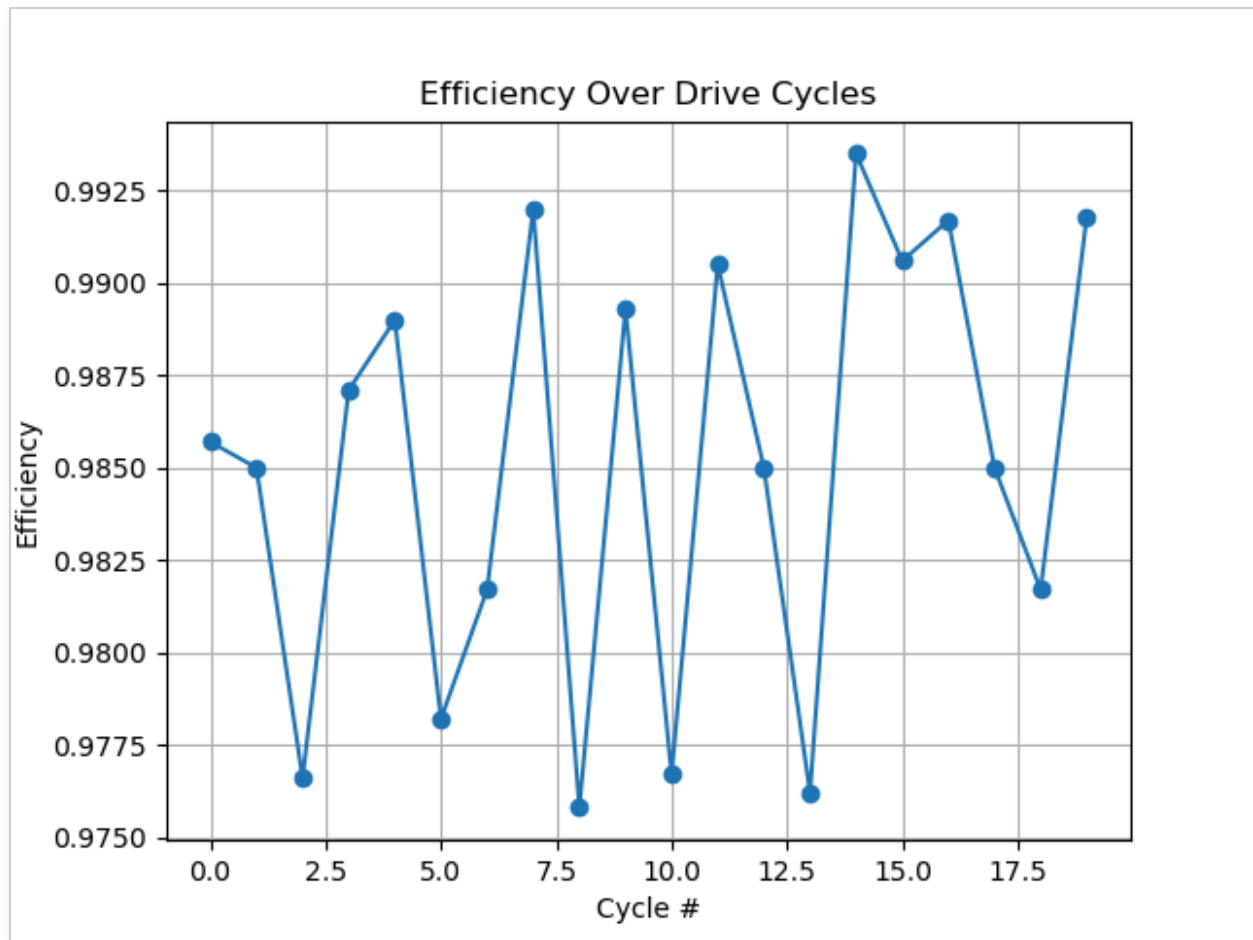


Remaining battery capacity over time

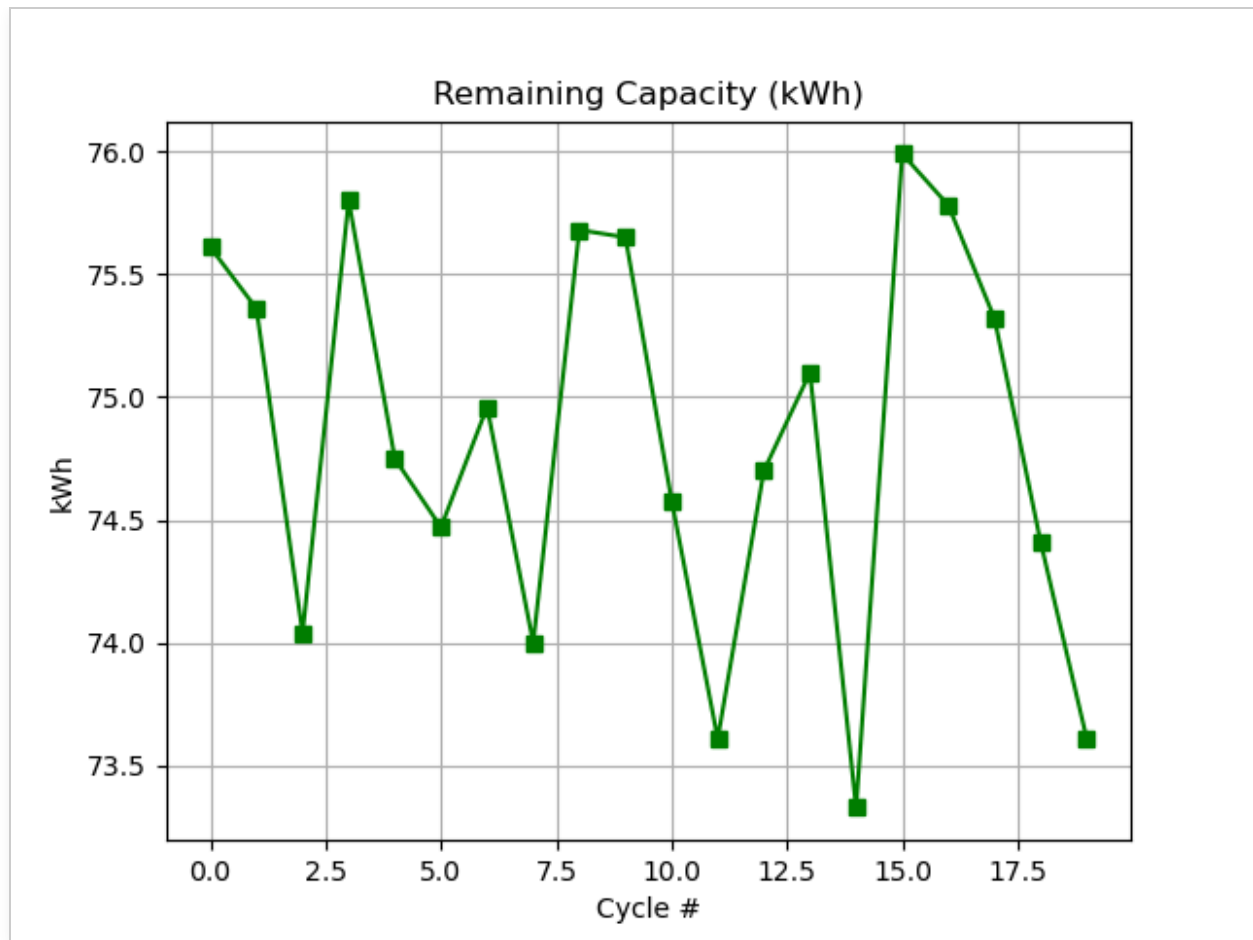


Charge-discharge cycles per simulation step

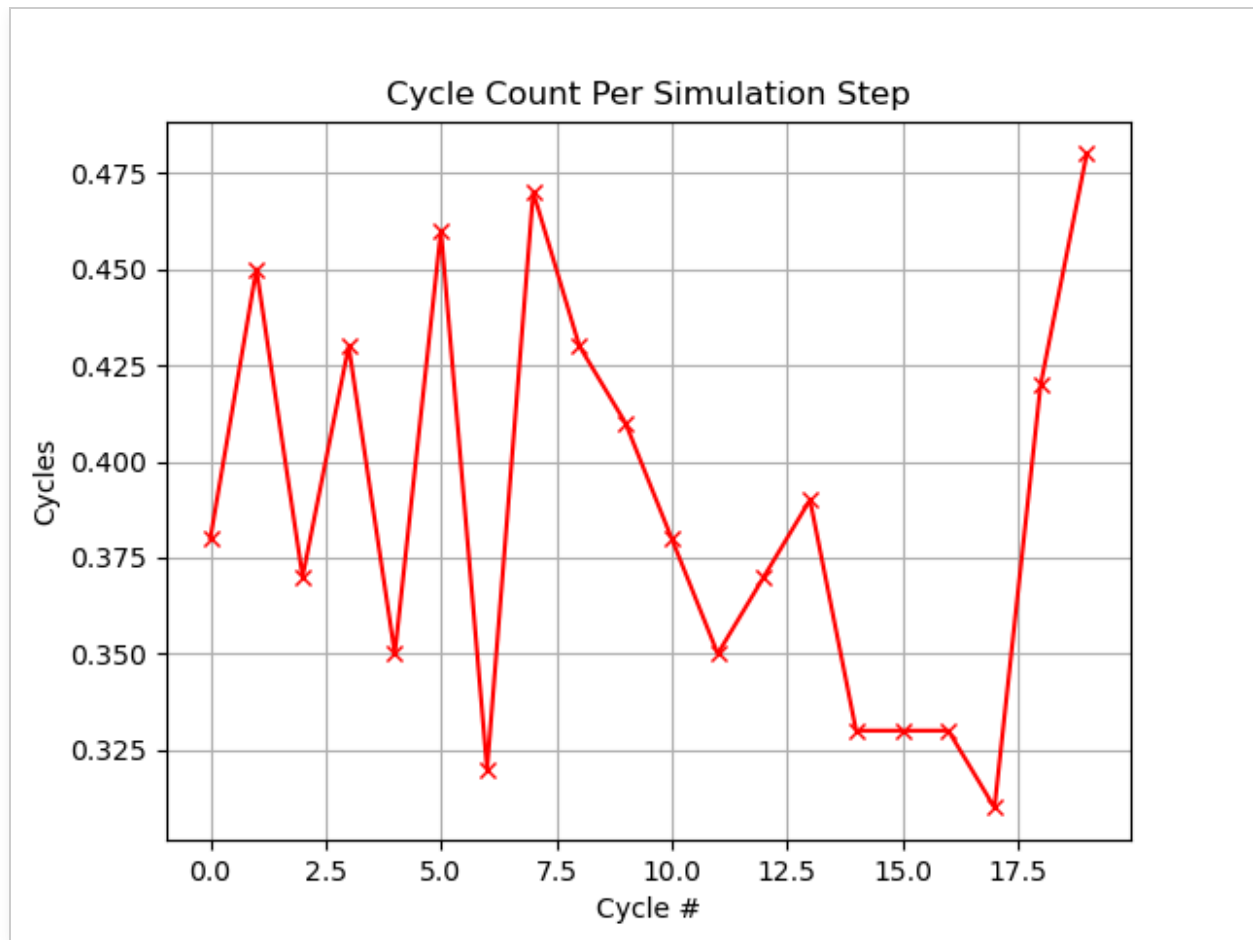
Real Log Simulation Results



Efficiency improvement across simulated drive cycles

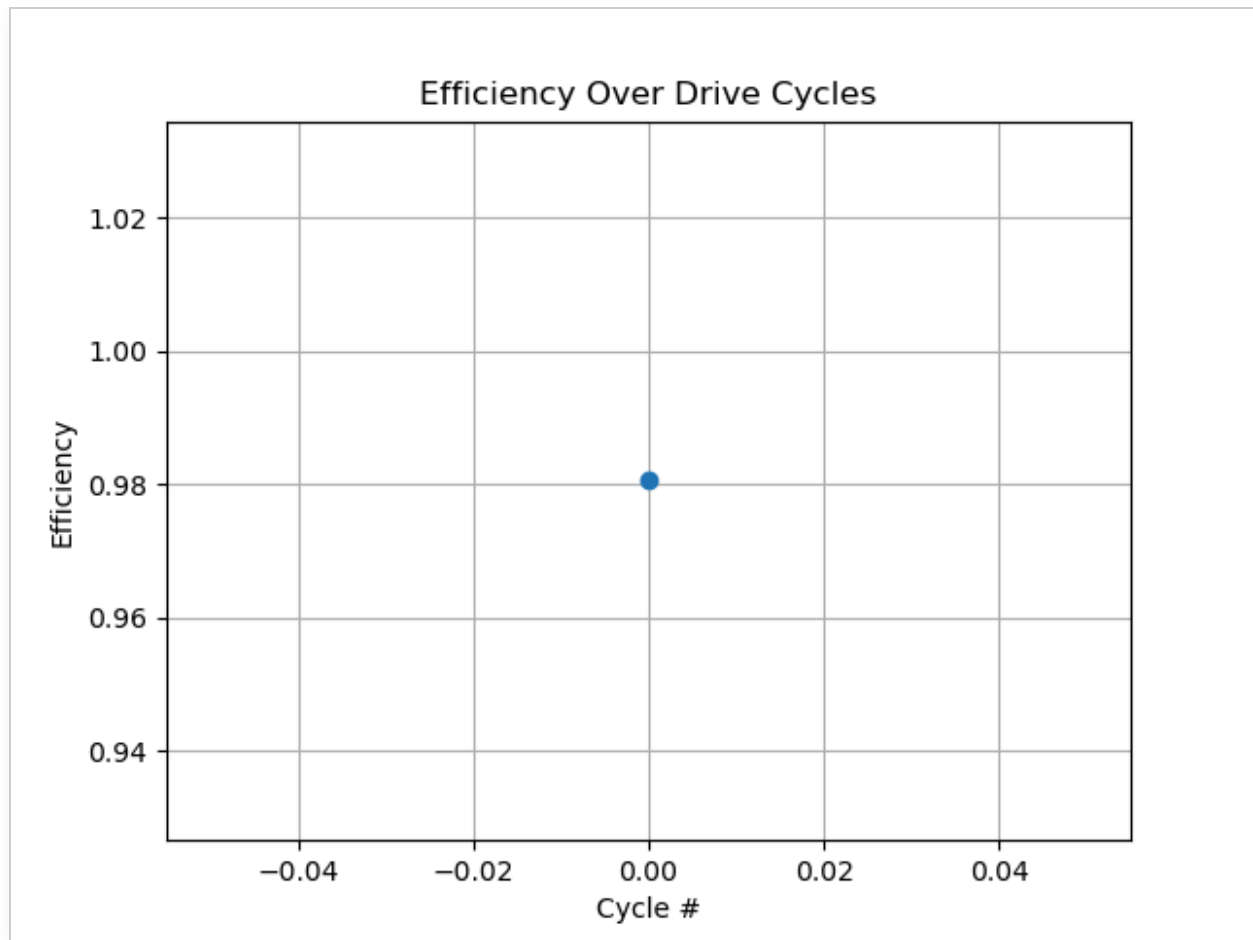


Remaining battery capacity over time

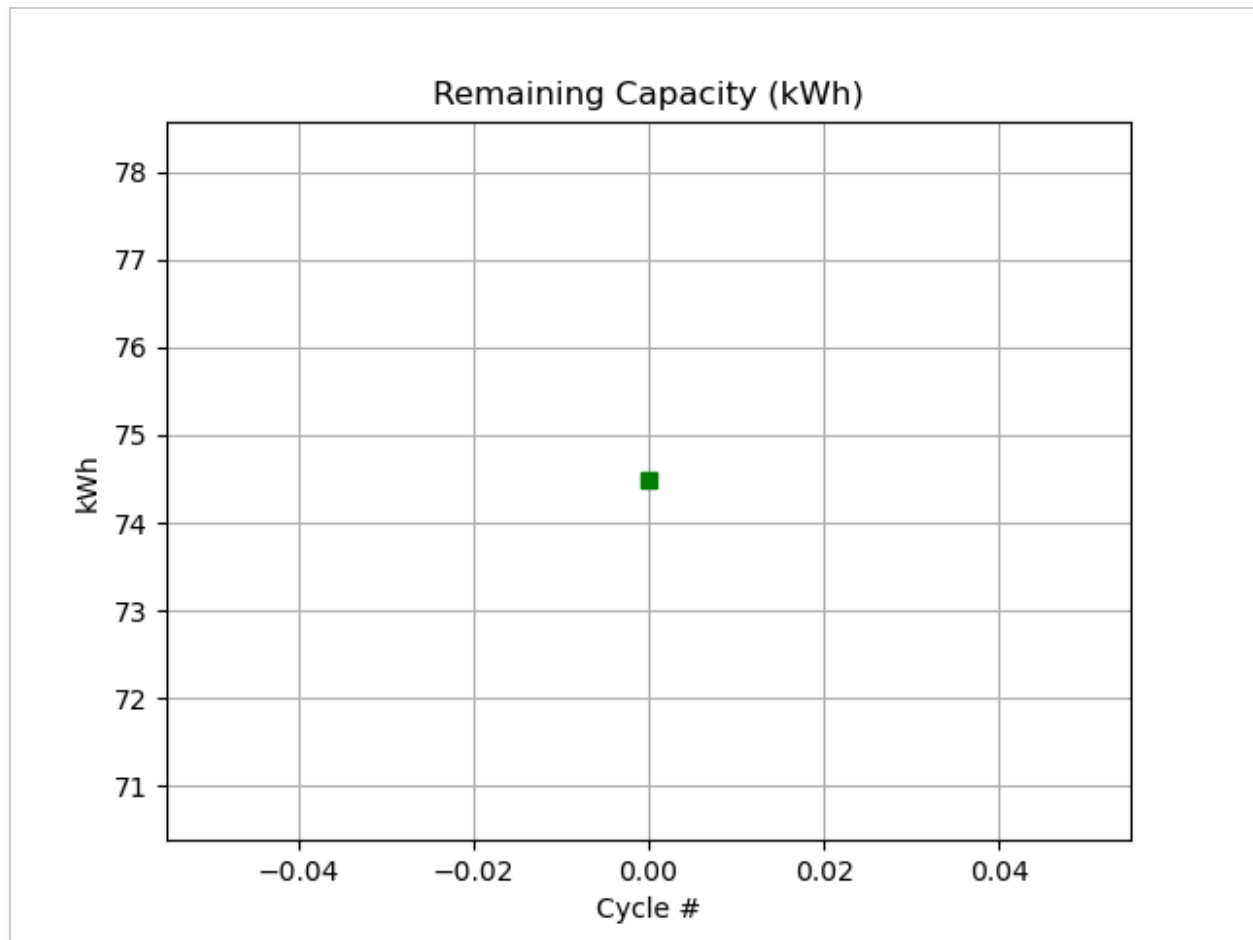


Charge-discharge cycles per simulation step

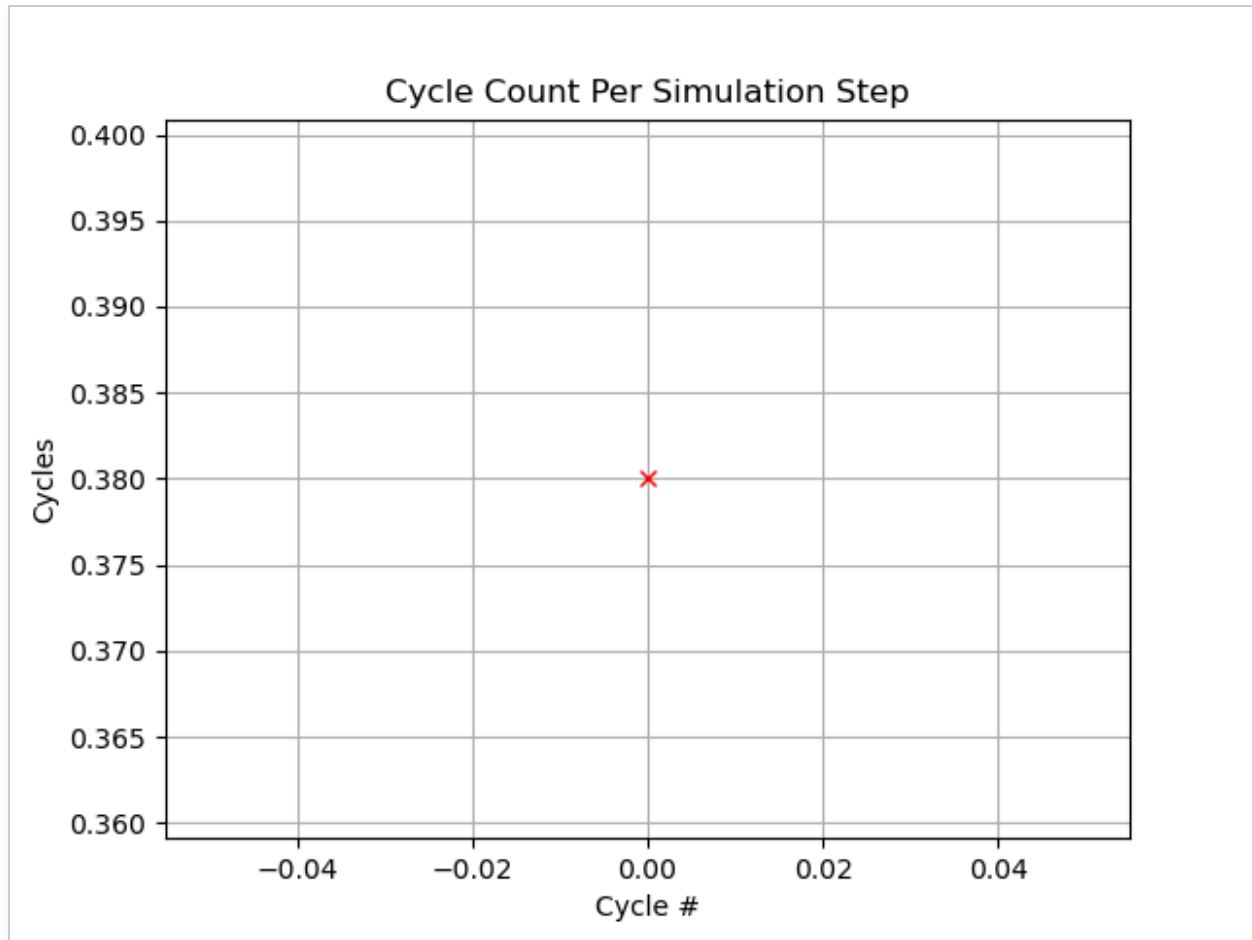
Demonstration Simulation



Efficiency improvement across simulated drive cycles



Remaining battery capacity over time



Charge-discharge cycles per simulation step

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