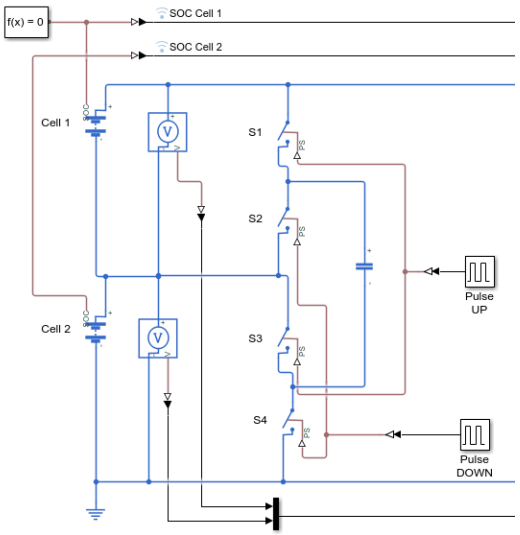
MONTH END REPORT

-ANISH V R

This month I have been working on the basic BMS architecture for the active balancing battery management system in SIMSCAPE. The main moto is to simulate is to know the switching frequency of the MOSFETS and this model I am trying to implement Switching Capacitors.



Have got some SOC % vs time graphs after running some simulations but must improve a lot in the Simulation of the Active Balancer. Also went through different papers on Quasi resonant Buck Converters. Ran some simulations of QRC in Multisim .

Also designed a PCB for the new Modular Battery Pack where the JST wires from the BMS is connected to IDC connectors and that is connected to a JST connecter and added a voltage and current sensor to read the data of the two different battery packs of 24V. The main moto of this PCB is to add two different 24V battery packs to one BMS while we can use it as a single Battery Accumulator. This is a 4-Layered PCB where I am designed a optimised PCB stacks for the new Modular Battery Pack. Will complete the PCB within 3 days.