

EDUCATION



- Bachelors in Engineering
- Mechanical Engineering & CS
- Expected graduation: May 2024

ABOUT ME



- Former suspension and steering lead of the FSAE team.



- Lead machinist for the FSAE team



- Play and follow soccer

- Teaching assistant for feedback control class

LINKEDIN



FUTURE ASPIRATIONS

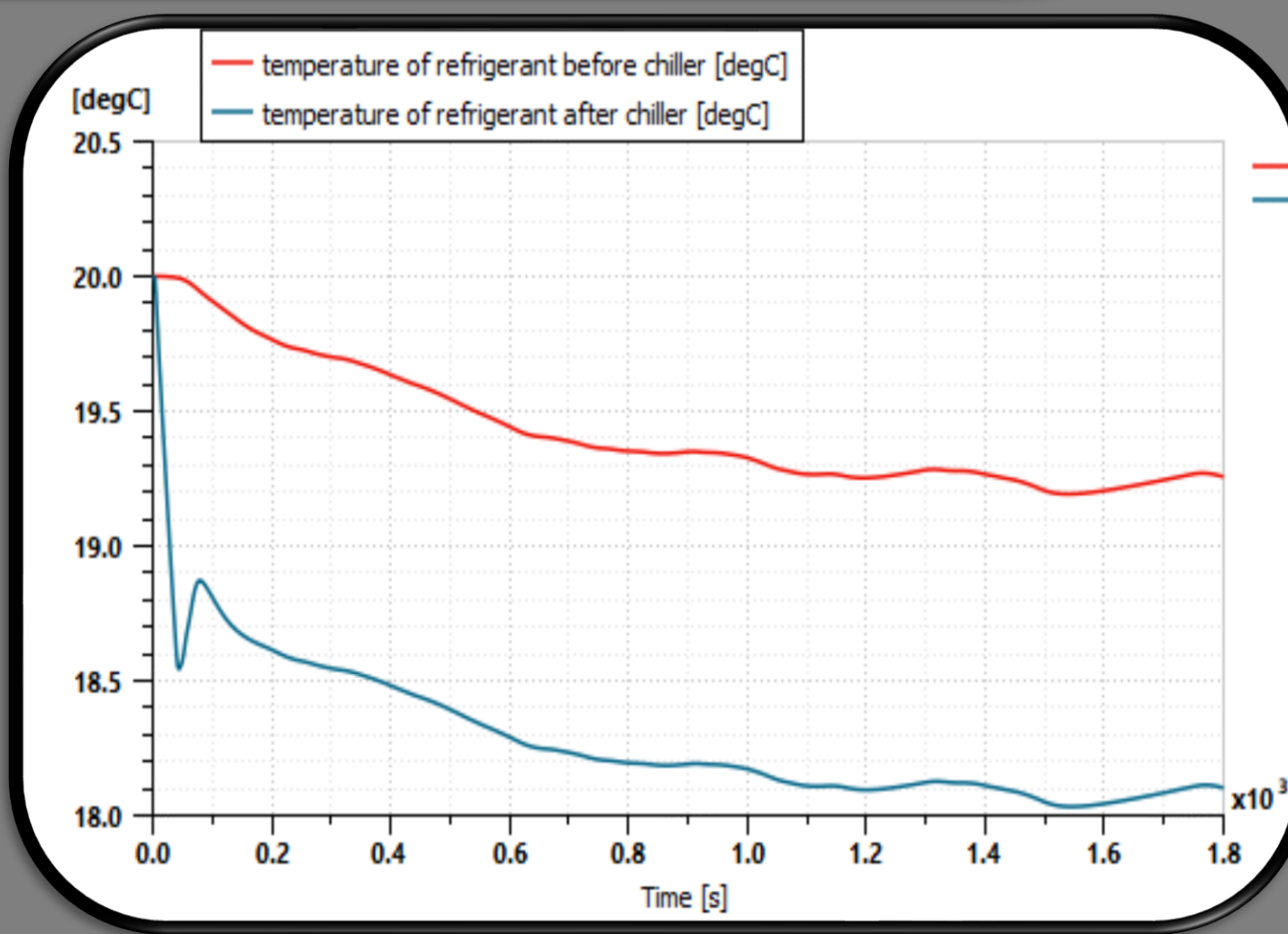
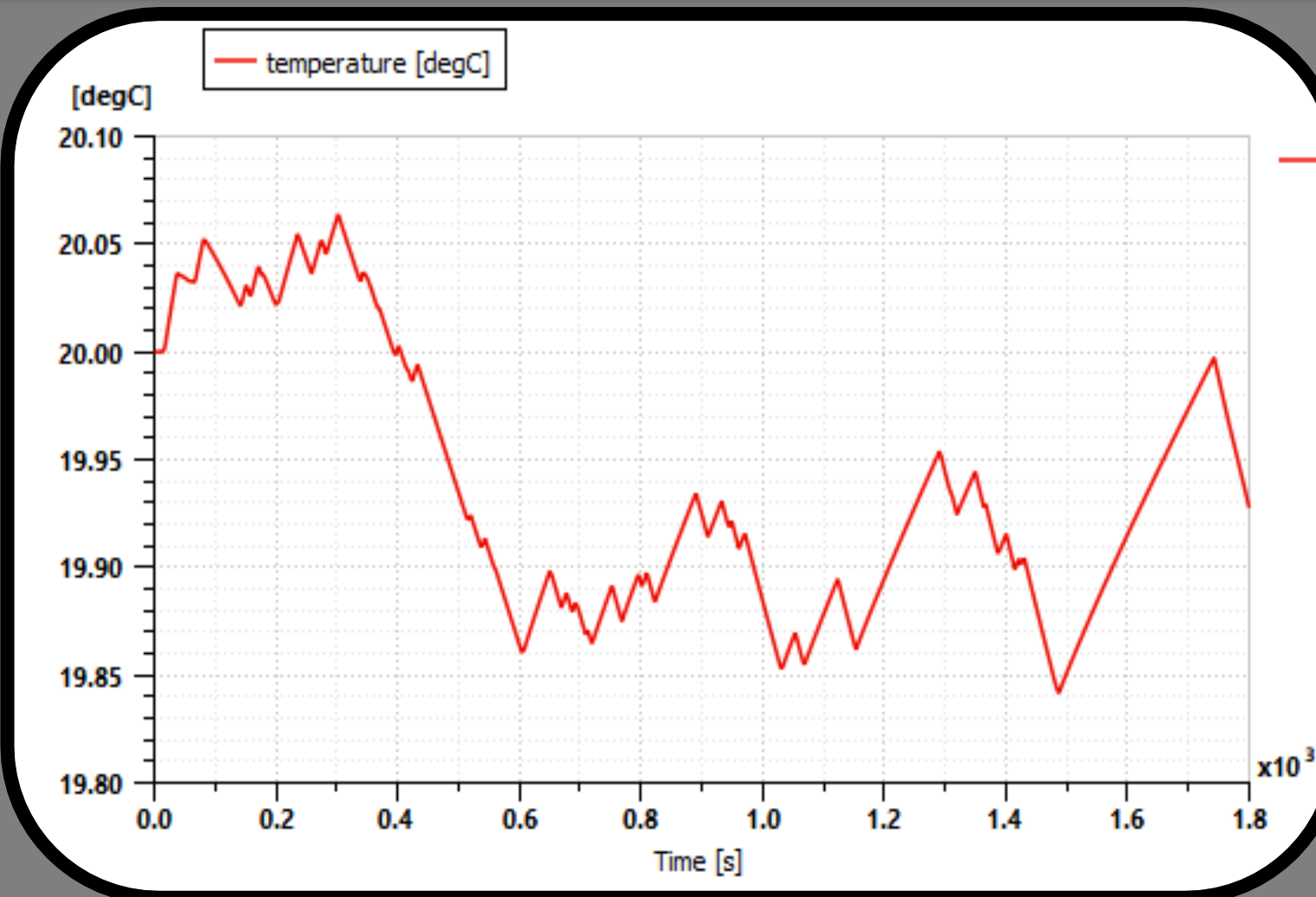
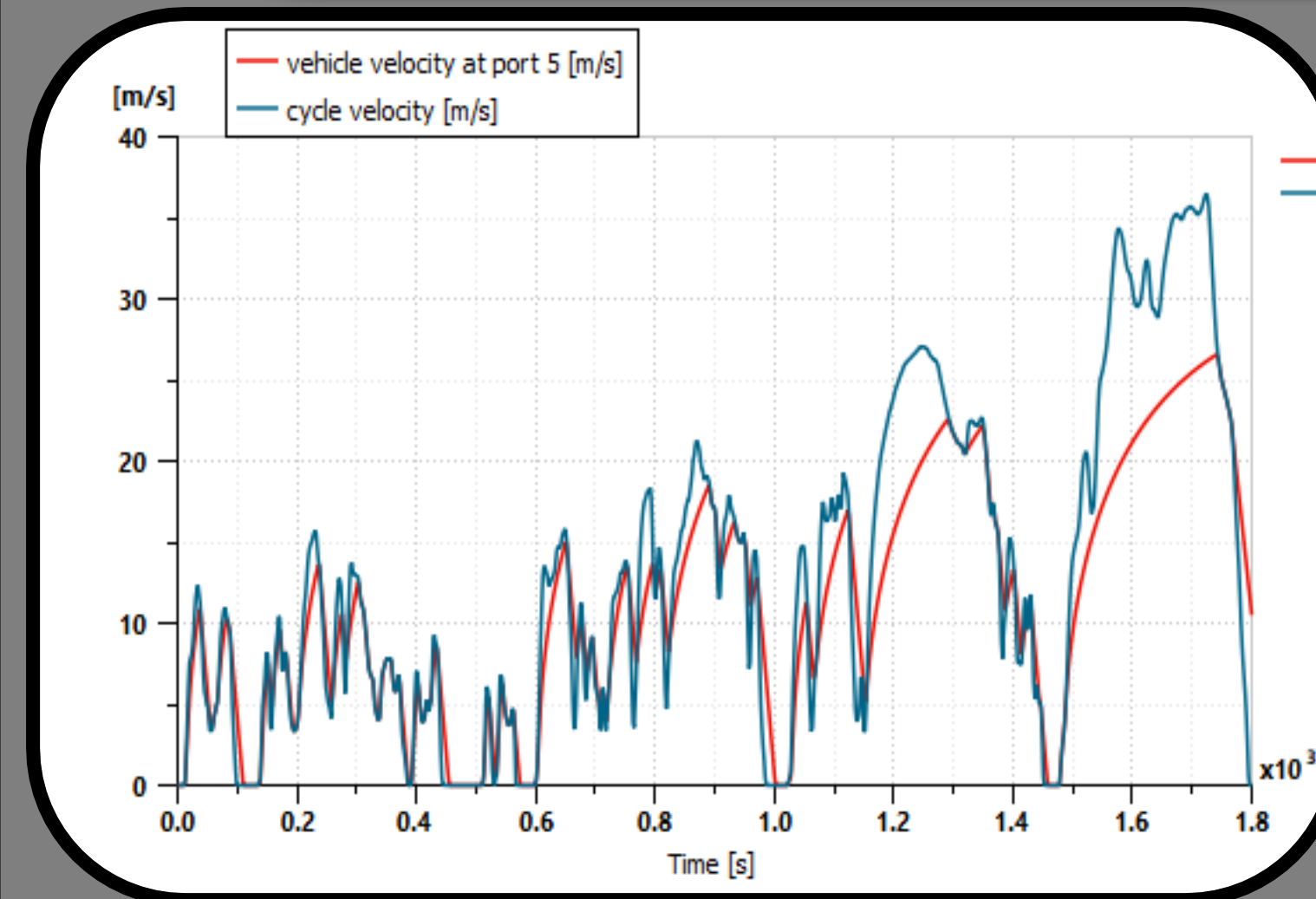
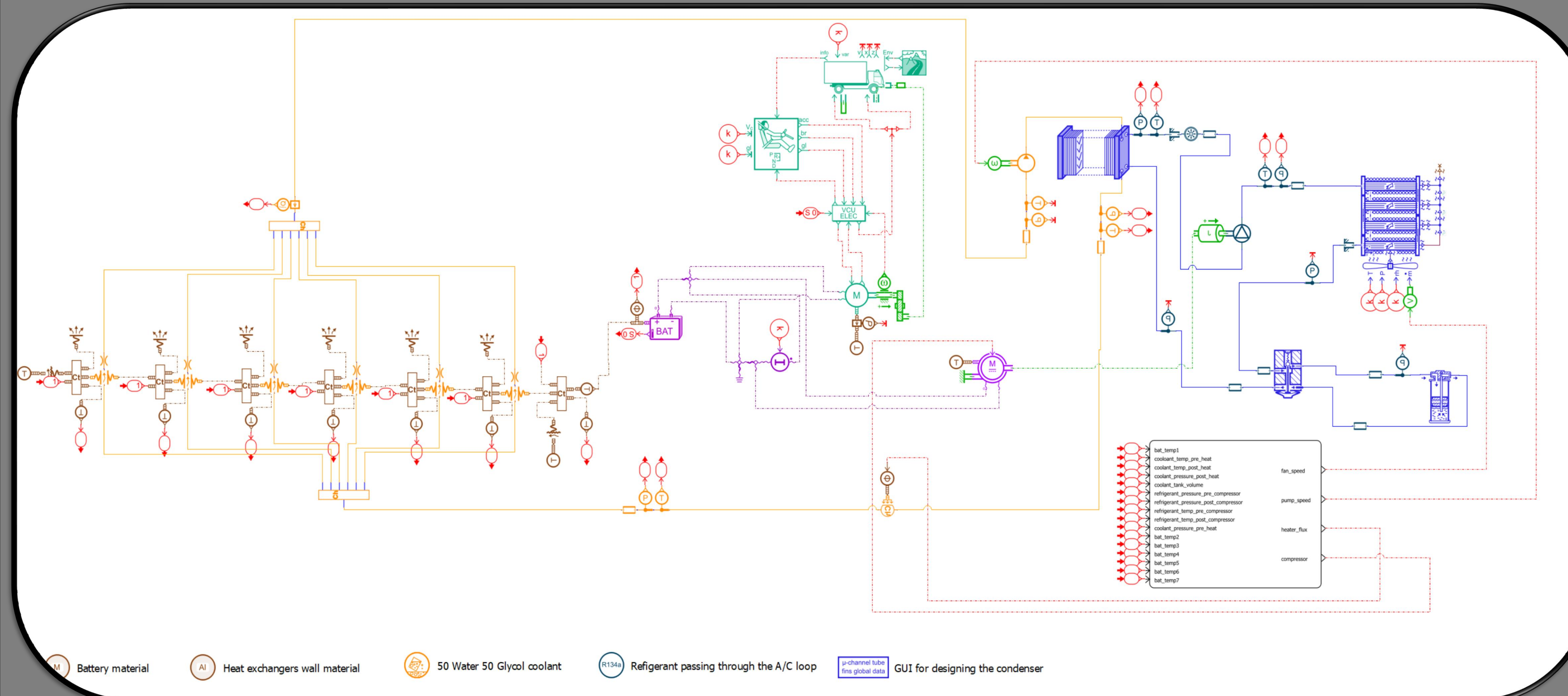
- Masters in mechanical engineering. Expected graduation: May 2025
- Pursue career as Guidance, Navigation, and Controls engineer

Khushant Khurana

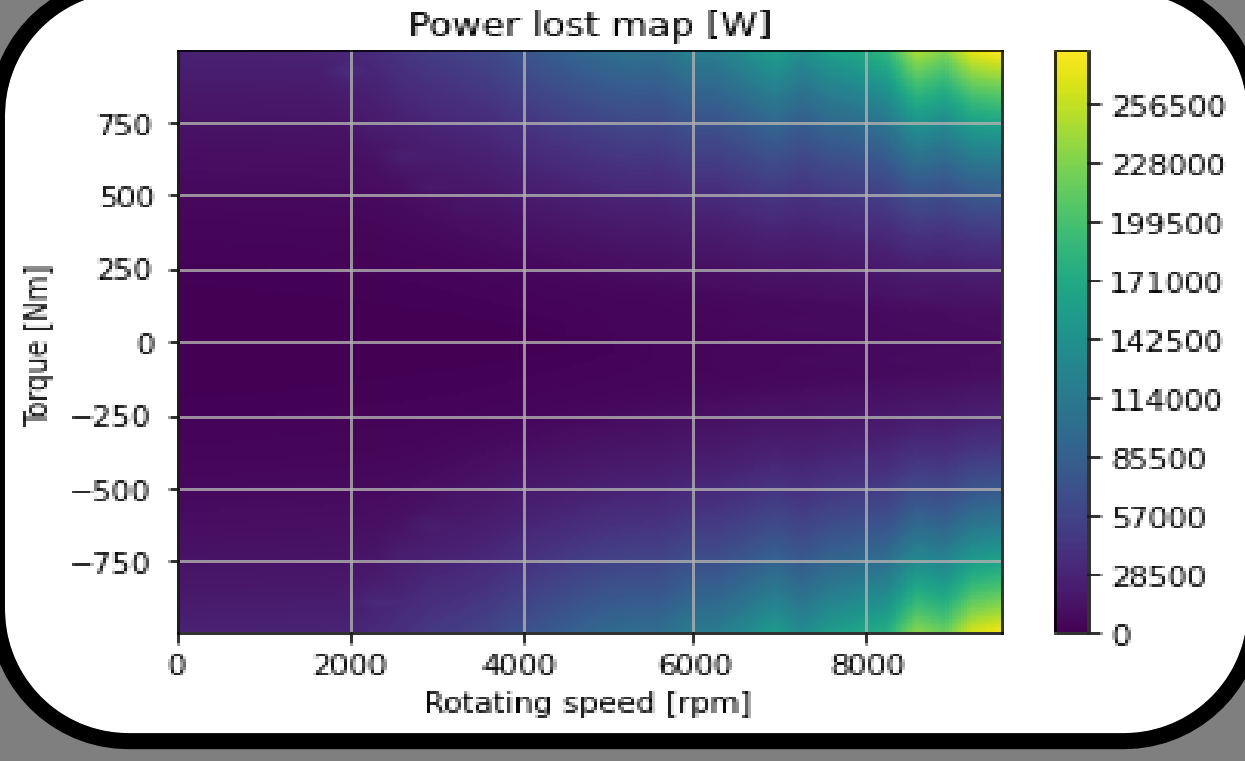
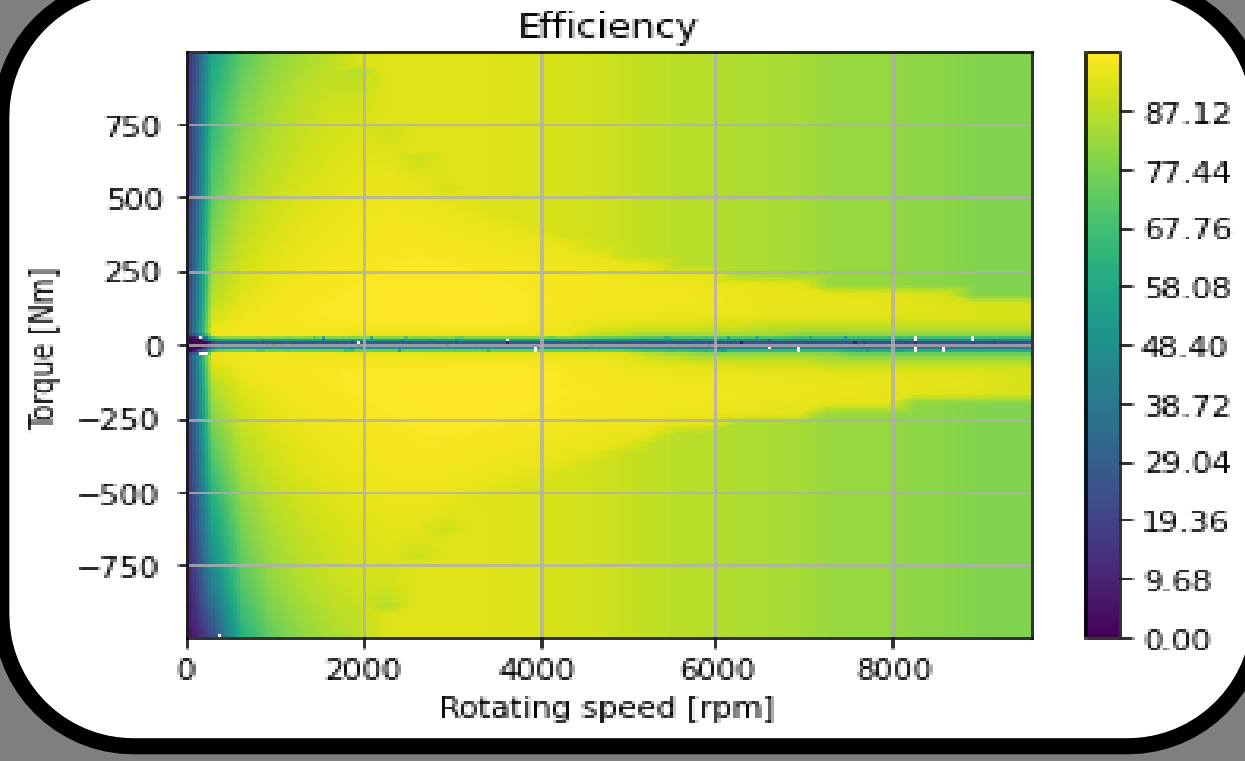
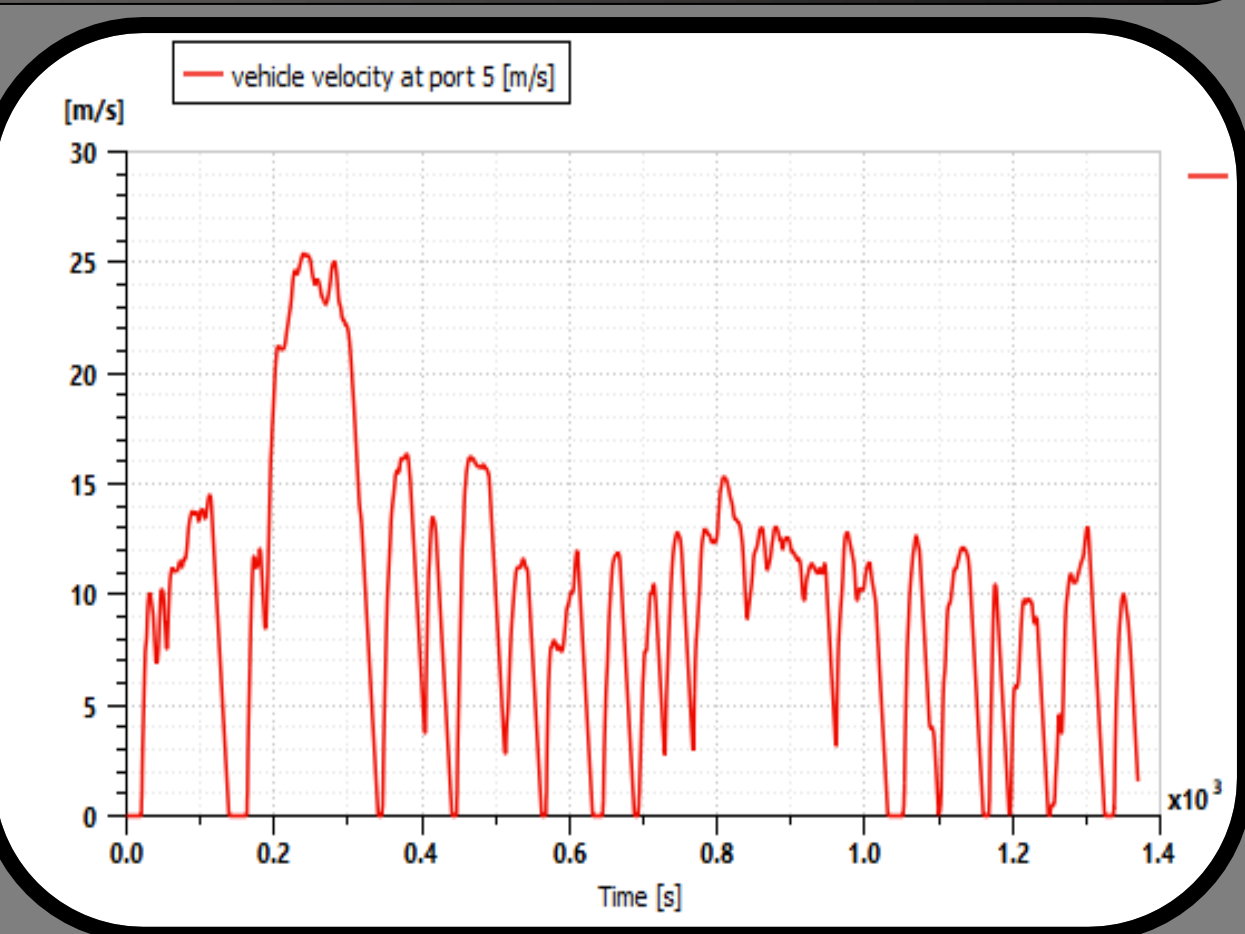
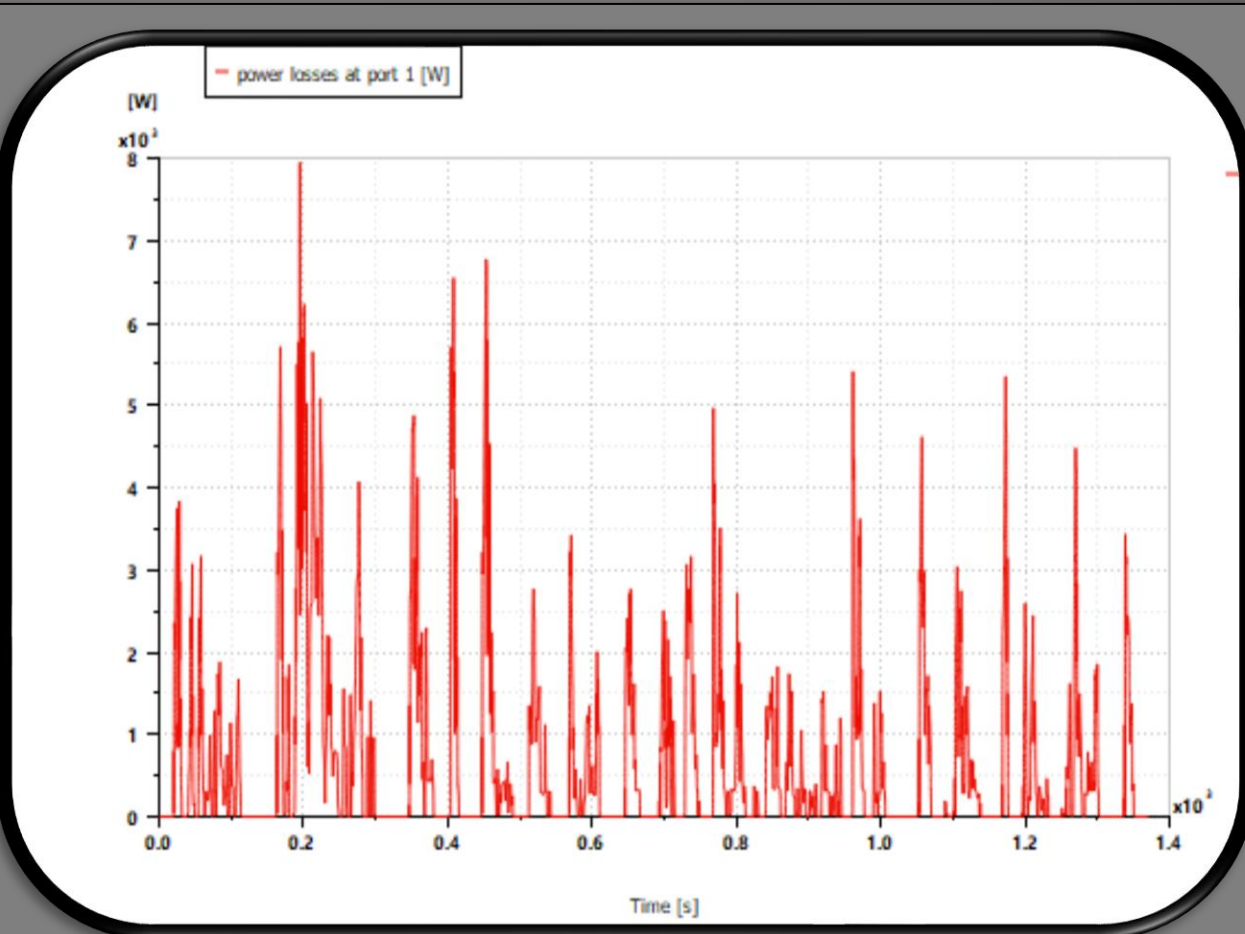
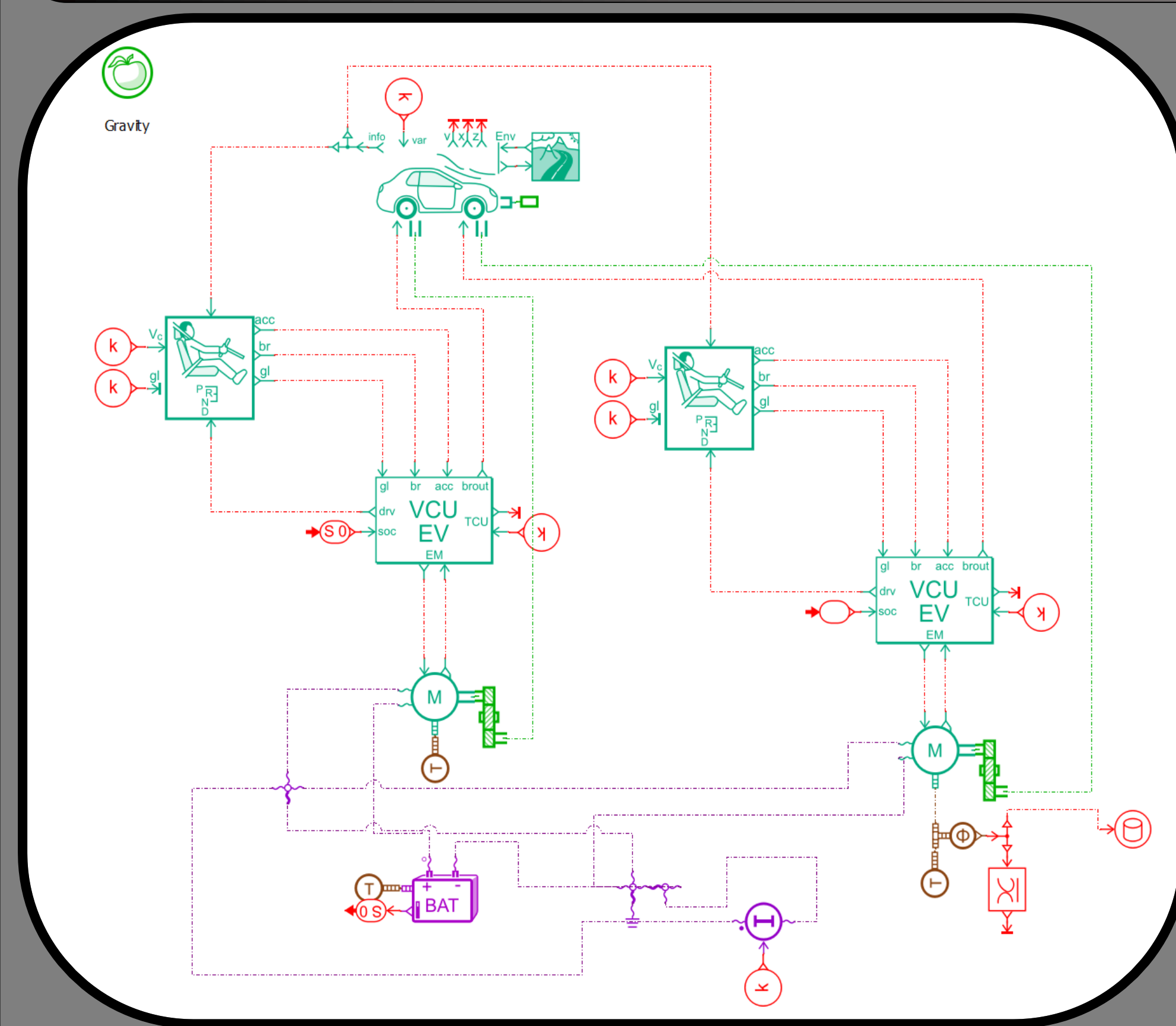
Controls Intern

Supervisor: Christopher Back

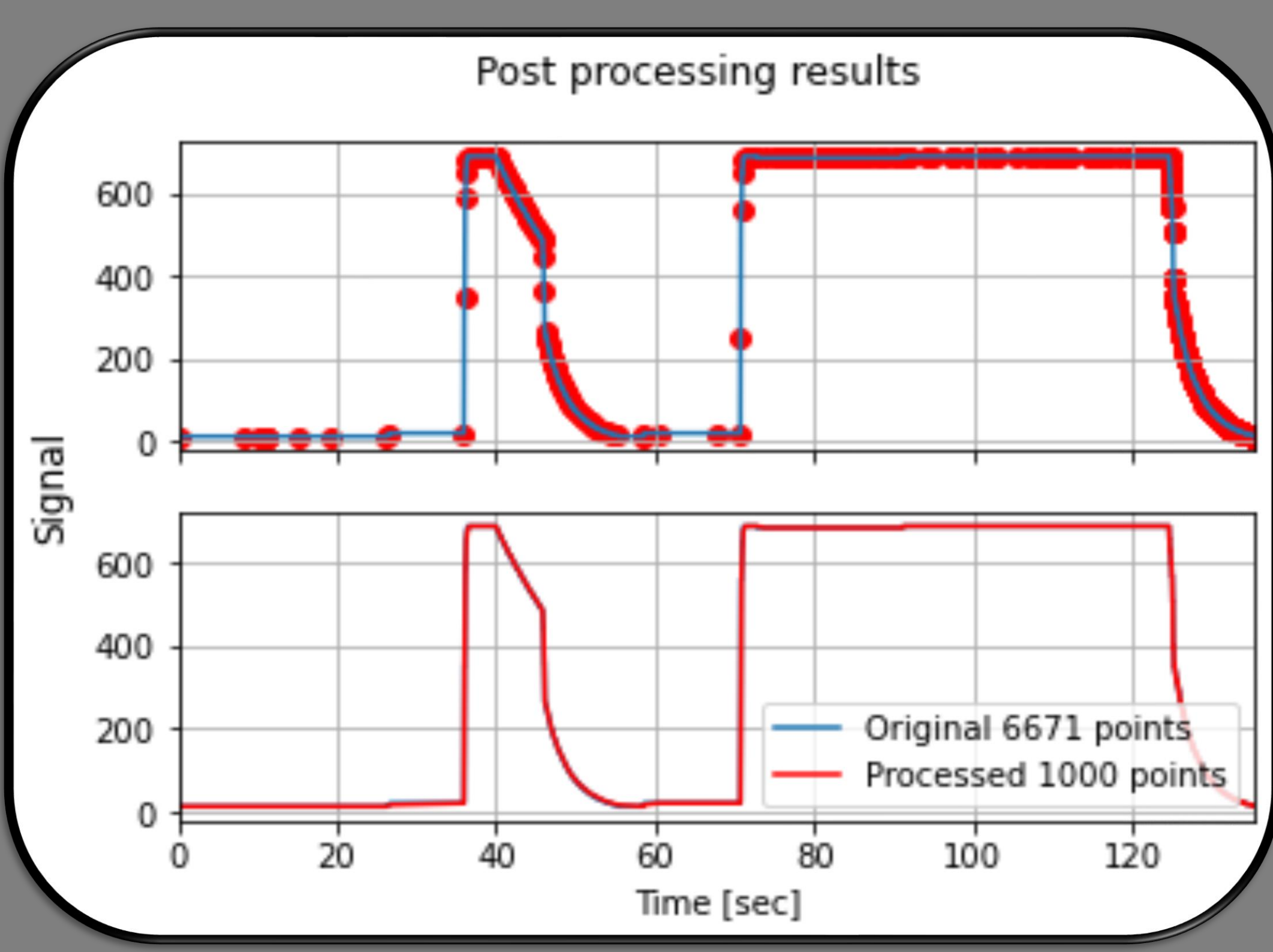
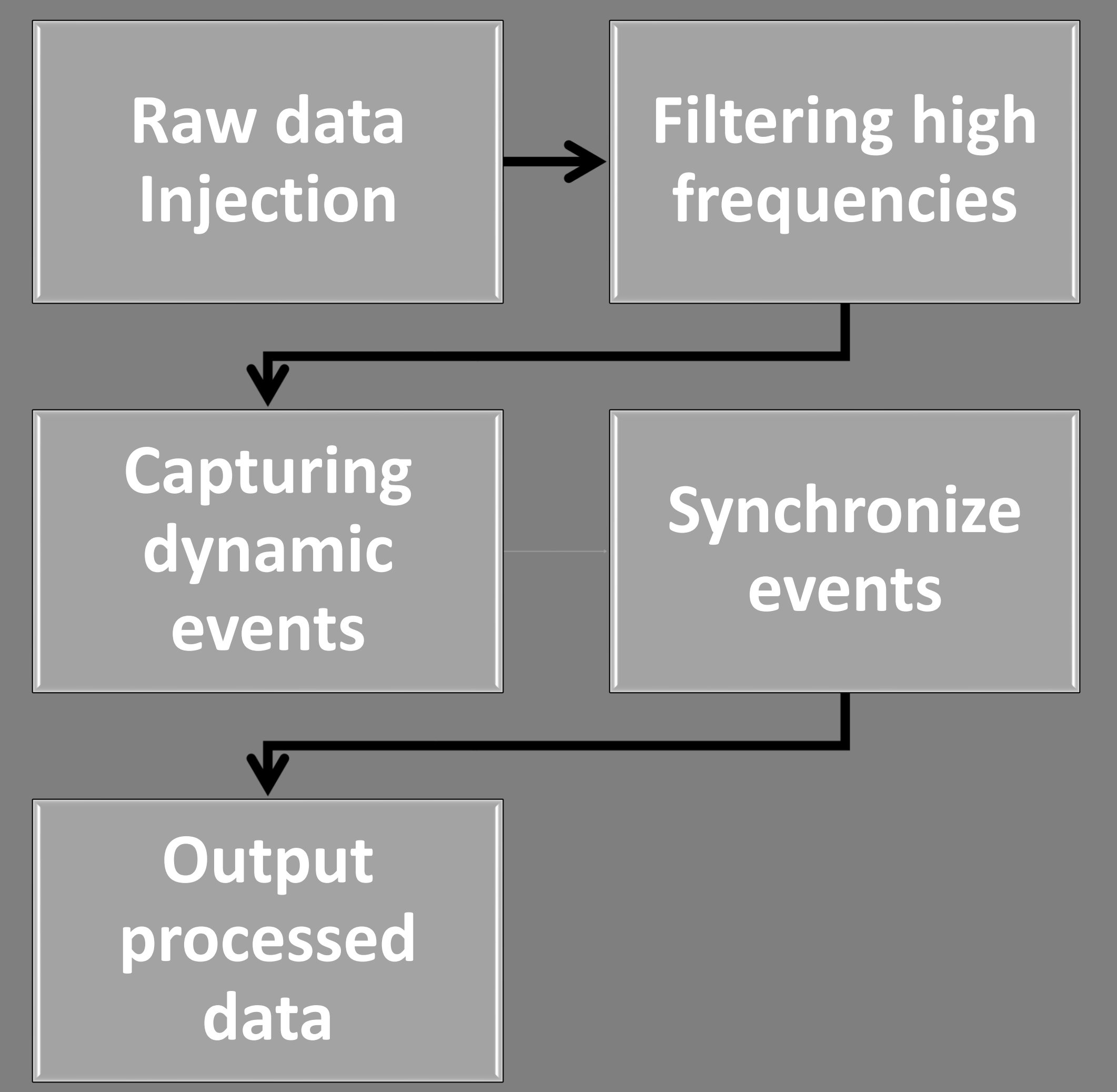
1. MODELLING AND SIMULATING A MODULAR BATTERY THERMAL MANAGEMENT SYSTEM



2. DETERMINING MEDIUM DUTY VEHICLE'S MOTOR'S HEAT REJECTION WHILE FOLLOWING UDDS DUTY CYCLE



3. DOWNSAMPLING CAN SIGNALS TO ALLOW FASTER PROCESSING FOR HIL SYSTEM



SOFTWARE USED



Amesim



Python



Matlab

FUTURE WORK

- Design a GUI to allow for easy visualization of the CAN signal processing.
- Perform validation tests on the BTMS model.