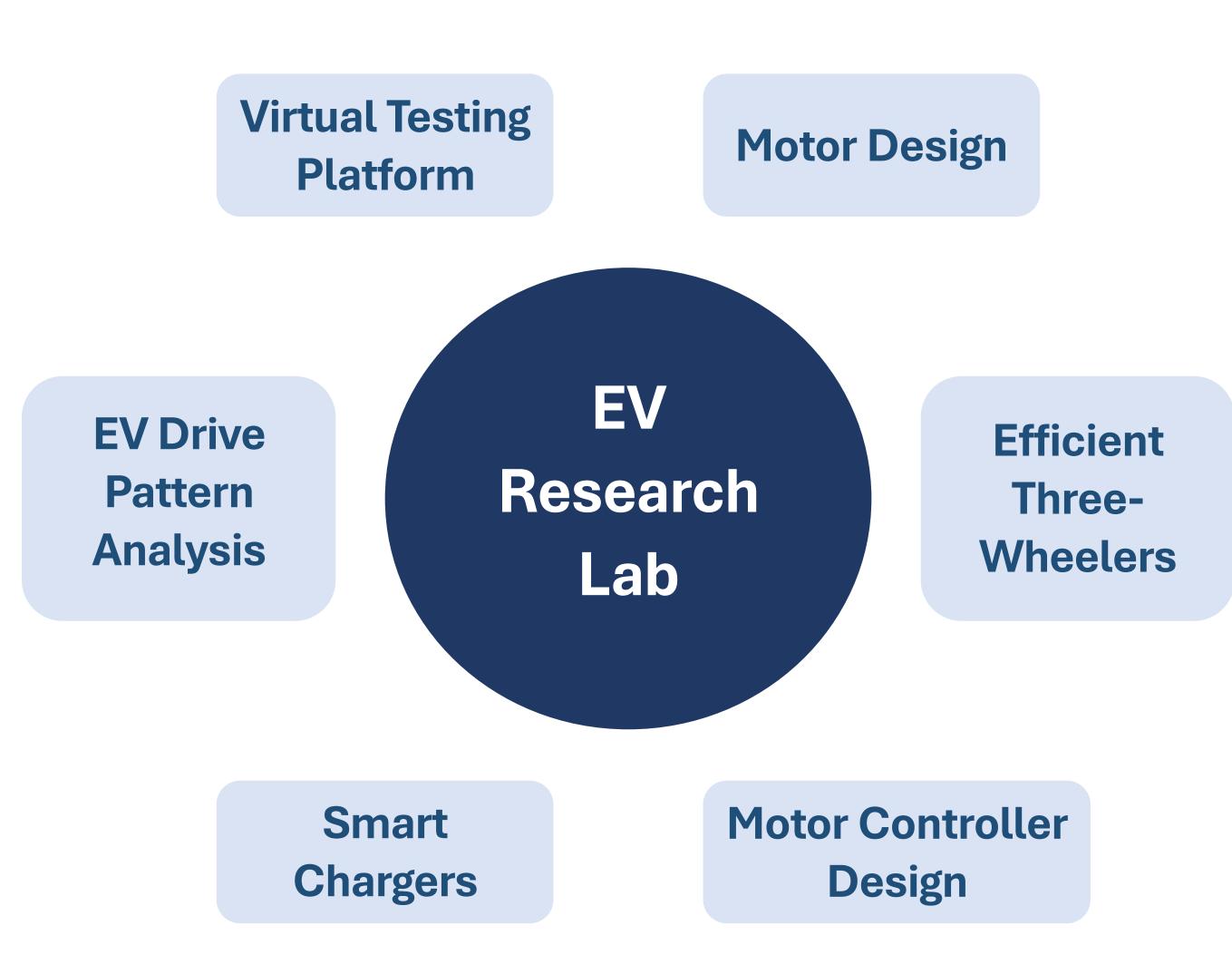
Electric Vehicle (EV) Research Laboratory

Lab Overview

The Electric Vehicle (EV) Research dedicated towards Lab developing technologies efficiently utilize the full caliber of electric vehicles. With the goal of exploring various multidisciplinary research areas for development of batteries, charger, and vehicles, the EV Research Lab is ready to be integrated into the 4IR Advanced Research and Innovation Park at the Department Electrical Electronic and Bangladesh Engineering at University of Engineering and Technology (BUET).

Primary Research Focus



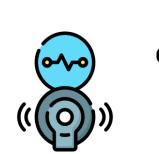
Lab Director(s):

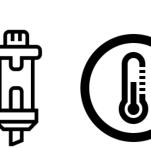
- Dr. Md. Ziaur Rahman Khan (zrkhan@eee.buet.ac.bd)
- Dr. Muhammad Anisuzzaman Talukder (anis@eee.buet.ac.bd)

Lab Facilities

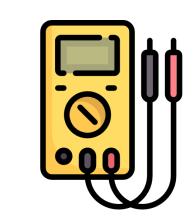














Integrated Sensor

Modules

Experimental Equipments

Ongoing Research Projects

Development of a virtual testing platform for electric vehicle batteries

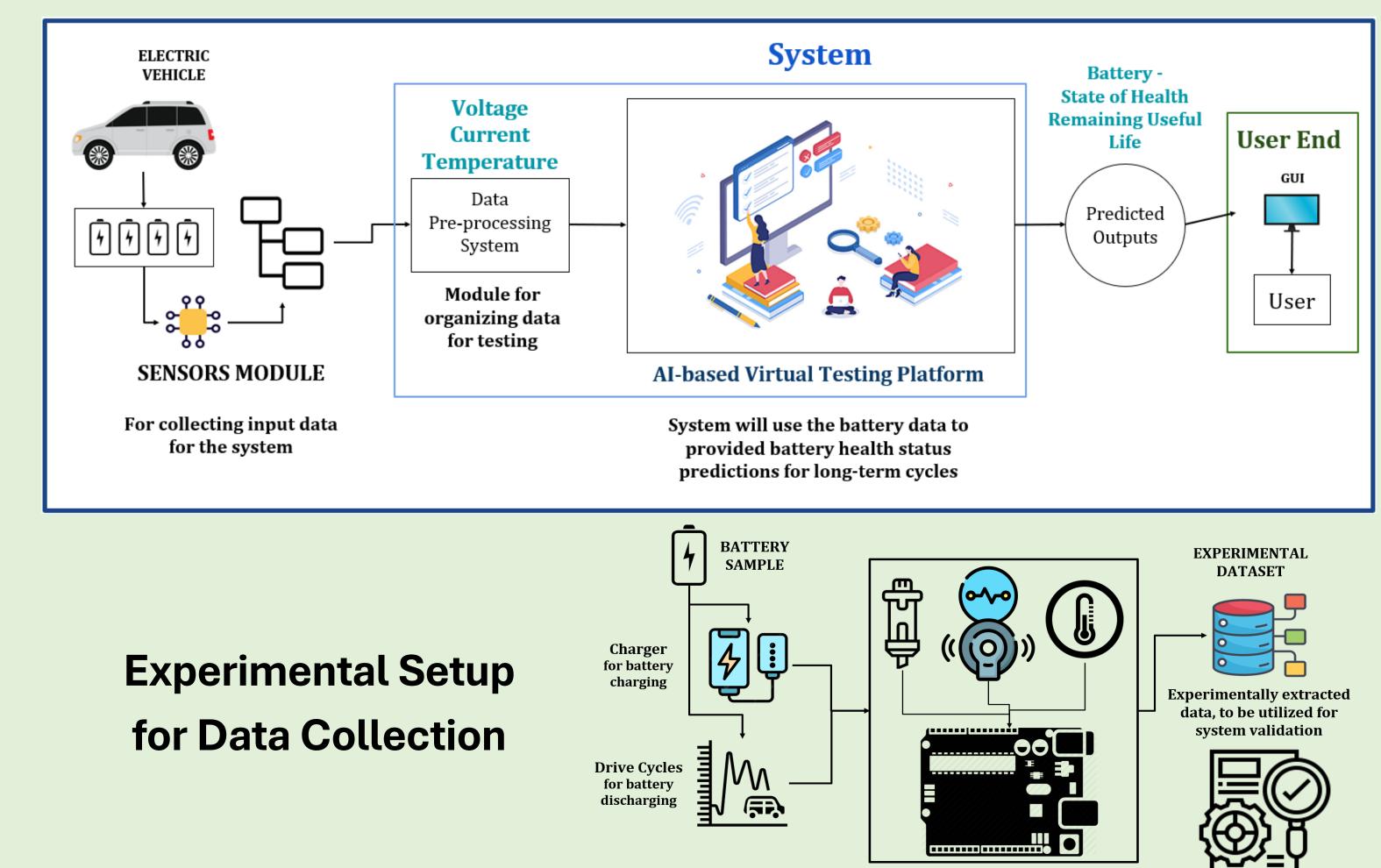
In collaboration with Poly Cables Industries Limited

Objectives:

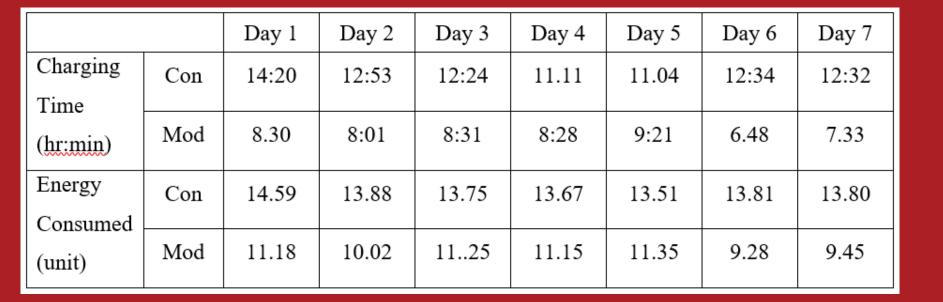
- □ Development of an efficient and fast virtual testing platform for EV batteries.
- □ System validation using experimentally generated data, incorporating various operational scenarios.

Works in Progress:

- ☐ Fully-functional deep learning-based battery health prediction model
- ☐ Incorporation of vehicle drive patterns in the context traffic in Dhaka, Bangladesh; using experimental data
- ☐ Development of full pipeline for an end-to-end testing architecture for user-friendly usage



Efficient Charging System for Electric Three Wheelers



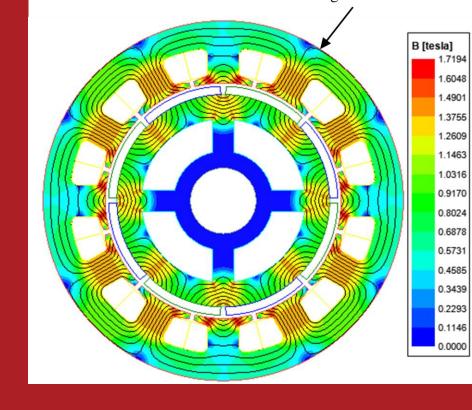




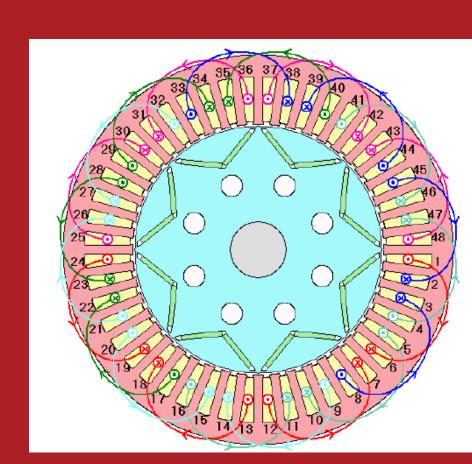
Design of Electric Boat for Urban Transportation

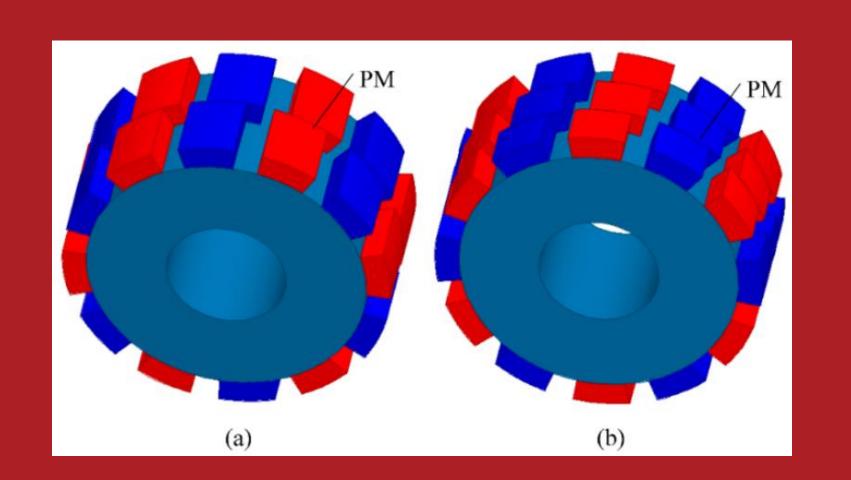
Development of a Design Standard for Easy Bikes in Bangladesh

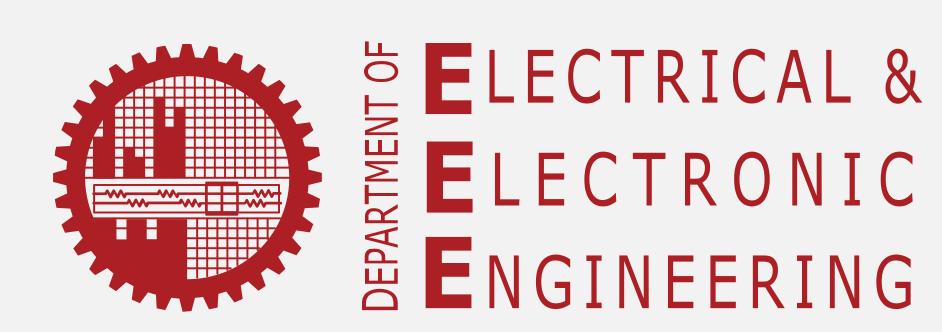




Design of Electric Motor for Electric Three Wheelers and Boats







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