

SUMMER INTERNSHIP AT IIT HYDERABAD



भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

ONE-MONTH SUMMER INTERNSHIP ORGANIZED BY TEQIP (III)

SUBMITTED BY: GURIYA KUMARI

COLLEGE NAME: BHAGALPUR COLLEGE OF ENGINEERING,
BHAGALPUR

BIHAR 813210

BRANCH: ELECTRICAL ENGINEERING

COURSE: BACHELOR OF TECHNOLOGY (B.TECH)

TOPIC OF INTERNSHIP:

A STUDY ON THE DESIGN OF BATTERY
MANAGEMENT SYSTEM FOR ELECTRIC VEHICLE
APPLICATION

FACULTY ADVISOR: DR. AMIT ACHARYYA

MANEUVERED BY: RASHI DUTT (PHD. SCHOLAR)

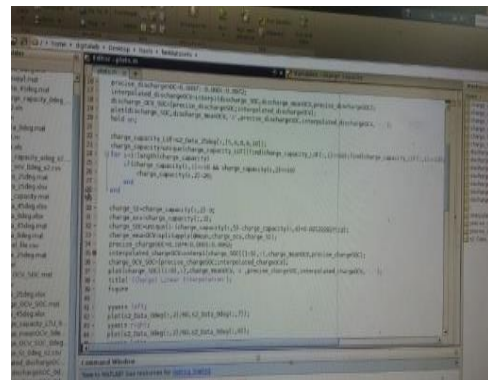
WORKSTATION: LAB No. 42 (IIT HYDERABAD)

TOPICS COVERED DURING THE INTERNSHIP

- Study of Battery Energy Storage Systems (BESS) for Electric Vehicle Applications.
- Study of State-Of-The-Art Battery Management System (BMS) algorithms for Electric Vehicle BESS.
- Study of different battery states (such as State of Charge (SOC), State of Health (SOH), State of Function (SOF)) estimation techniques for efficient BMS Implementation.
- MATLAB Implementation of OCV VS SOC Curve determination algorithm for lithium-ion batteries to generate input data for BMS.
- Introduction to ASIC & FPGA Design Flow.
- FPGA Implementation of Combinational circuits such as ADDER and MUX to be used in the VLSI implementation of the BMS module.



Zynq ultrascale



MATLAB program OCV vs
SOC of lithium ion battery

UNFORGETTABLE CLICK

