

Team: 34

Project Title: RV Power Monitoring System

Date: 10/16/21

Members:

Individual 1: Peter Rothstein

Individual 2: Nickolas Moser

Individual 3: Utsavee Desai

Individual 4: Michael Woo

Individual 5: Doug Bullock

Individual 6: Kent Mark

Individual 7: Matt McCarthy

Individual 8: Jace Kunkel

What we have accomplished/researched this past week:

Individual 1: Completed the design assignment as a team, along with the corresponding lightning talk. Researched more into raspberry pi zero and made comparisons with other microcontrollers.

Individual 2: Completed design assignment and lightning talk. Researched ADC unit in RP2040 chip along with capabilities of Raspberry Pi Pico microcontroller board.

Individual 3: Completed the design assignment and the lightning talk. Researched about what Shunt Resistors are and how they work.

Individual 4: Completed the design assignment and the lightning talk. Researched possible methods for power analysis.

Individual 5: Completed the design assignment. Researched possible circuit ideas and other setups for this project.

Individual 6: Completed the design assignment, helped read over lightning talk presentation.

Individual 7: Completed design assignment with group. Researched microcontrollers for the project

Individual 8: Completed the design assignment. Helped do the lightning talk assignment. Research possible circuit ideas.

What were planning to do in the coming week:

Individual 1: Discuss possible frontend/backend languages, libraries, and IDE's with software groupmate. Continue researching microcontrollers.

Individual 2: Discuss communication protocols to be used between microcontrollers and raspberry pi zero. Discuss sensor components

Individual 3: Discuss possible ways to work with power monitoring and start thinking and building possible circuits.

Individual 4: Discuss possible designs for power monitoring both the DC and AC power.

Individual 5: Discuss various components and possible circuit layouts.

Individual 6: Discuss possible frontend/backend languages, libraries, and IDE's with software groupmate.

Individual 7: Discuss circuit specifications and viable components.

Individual 8: Discuss different circuit designs and possibly start trying to design some circuits.

Issues we had in the previous week:

Individual 1: None

Individual 2: None

Individual 3:None

Individual 4: None

Individual 5: None

Individual 6: None

Individual 7: None

Individual 8: none