CAE Research Project Meeting Minutes
9-23-2022

- Participants
  - Dr. Waleed Farag (PI)
  - Dr. Xin-Wen Wu
  - Meghan Schlipp
  - Emily Himes
  - Zachary Keyser
  - Drew Rado
  - Sky Semone
  - Zaryn Good
  - Maria Balega
- Meeting started at 6:00 pm
- Unanimously approved minutes for meeting on September 16th, 2022

Main Points:

- Progress report
  - Drew got ThingsBoard Maker to work. This will allow data collection… full integration with the rest of the project will start next Monday.
  - Sky, Emily, Zach, and Meghan worked on getting all sensors to work according to the discussed configurations
    - A1: temp/humidity/sound
    - A2: CO,CO2,O2.dust
  - Zaryn and Maria gave the rest of the group the data used in the previous part of the research/ explained it.
  - Meghan learned about the DCNN and installed the ThingsBoard Edge and explored its potential
- Discussion points
  - Dr. Wu brought up the importance of preprocessing the data; how do we make our data comparable to the data used in the first part of the study?
    - Drew will start working on this
  - Talk about how we will get all data required to make a comparable dataset.
    - Set up Wireshark for network data
    - Try to get as much data as possible on the Arduino
- Tasks:
  - Maria and Zaryn
    - Once data comes in, verify it, preprocess it if it will work, and start applying algorithms
  - Emily, Meghan, Hector, Zach, Sky
    - Get access to new ThingsBoard account and make dashboards for the sensors
    - Collect and save data
    - Start working on the other required fields needed for the dataset

  - Drew, Nate
    - Keep working on Thingsboard, investigate data collection procedures

Adjournment at 6:35

Next meeting will be held on Friday, September 30, at 6:00 pm