CAE Research Project Meeting Minutes
2-22-2023

- Participants
  - Dr. Ezekiel
  - Dr. Wu
  - Drew Rado
  - Zach Keyser
  - Emily Himes
  - Maria Balega
  - Sky Semone
  - Zaryn Good
- Meeting started at 11:10 AM
- Unanimously approved minutes for meeting on Feb 15, 2023.

Main Points:

- **Progress report**
  - Drew ordered computer parts and recollected DDOS data.
  - Sky reconfigured sensors to reset when a transmission error occurs (these have been stalling data collection over long periods of time)
    - Made new data analysis tools to address the strange SVM/XGBoost results.
    - Started helping Drew on the final write-up.
    - Helped Maria and Zaryn to diagnose problems with ML results.
  - Zaryn modified weights and biases on DCNN models and saw a significant improvement in results. Trained most DCNNs for previous dataset.
  - Maria: determined computation time of algorithms for paper and verified data for XGBoost/SVM
  - Emily: made a floorplan of Room 305, continued with documentation.
  - Zach: worked on floorplan diagram.

- **Discussion points**
  - Dr. Farag wanted a poster for each 1.) Drew and 2.) Zaryn/Maria's paper.
    - Drew needs clarification on the scope of his poster so it does not overlap content with Maria and Zaryn.
    - Friday March 3rd is the deadline for the Scholars Forum. It takes place on April 5th.
    - Ask for help with these if needed and remember to focus on visuals.
  - Make sure room 305 stays clean as people tour our facilities.

- **Tasks:**
  - Drew: analyze data and send it out to everyone, continue working on paper
  - Sky: finish up data viz with new data, continue reading over Drew's paper
  - Zaryn: continue training DCNNs with new upcoming data, helping with write-ups as needed.
  - Maria: work on paper and continue training XGBoost/SVM as new data comes.
  - Emily: continue work on documentation.
  - Zach: finalize schematics with help from Drew and Sky.

Adjournment at 11:45. Next meeting will be held on Wednesday, March 1st at 11:10 AM