CAE Research Project Meeting Minutes
1-11-2023

• Participants
  o Dr. Farag (PI) o Emily Himes
  o Dr. S. Ezekiel o Sky Semone
  o Dr. Wu o Zaryn Good
  o Drew Rado

• Meeting started at 11:10 AM
• Unanimously approved minutes for meeting on January 5th, 2022

Main Points:
• Progress report
  o Drew set up an IP web-camera as an additional sensor in our IoT system. Data collection went well, but noted that there was a period of time with a large amount of data points.
  ▪ This should be investigated for next week before we use this data
  ▪ 1400 data points per hour from the camera
  o Sky worked on stats and data viz python code for new plots
  o Maria worked on formatting the paper
  o Zaryn trained a DCNN and saw very high results, over 99% for all possible trainings
    ▪ This verifies that we need to diversify the dataset.
  o Emily continued working with Drew to collect and organize results and other documents.

• Discussion points
  o Dr. Ezekiel mentioned that he wanted to see a time-dependent version of the data, like Sky plotted last time.
  o Dr. Farag reminded that we should all be keeping documenting our progress as we go, as this will be very useful for the papers in progress.
  o Dr. Wu asked if we plan to have a description of our sensors and our experimental setup? Details should include...
    ▪ Hardware
    ▪ What the dataset consists of
    ▪ Pictures and charts of everything
    ▪ Drew mentioned that he could make wiring diagrams for our Arduino sensor boards.

• Tasks:
  o Drew: continue collecting malicious data
  o Sky: help Drew collect data and analyze data once its collected
  o Zaryn and Maria: work on paper,
  o Emily: continue working on documentation and OneDrive organization.

Adjournment at 11:45 AM. Next meeting will be held on Thursday, Jan 18th at 11:10 AM