CAE Research Project Meeting Minutes
9-30-2022

- Participants
  - Dr. Waleed Farag (PI)
  - Dr. Xin-Wen Wu
  - Dr. Soundararajan Ezekiel
  - Drew Rado
  - Emily Himes
  - Hector Linarez
  - Maria Balega
  - Meghan Schlipp
  - Sky Semone
  - Zach Keyser
  - Zaryn Good

- Meeting started at 6:00 pm
- Unanimously approved minutes for meeting on September 23th, 2022

Main Points:

- Progress report
  - Drew got ThingsBoard Maker to work and shared how to use it with the team
  - Sky configured the Arduinos as mentioned by Dr. Ramson, fixing problems with the UART bus and the 5V-to-3.3V data conversion. Two copies of each node were made.
  - Maria worked on the IEEE paper
  - Emily focused on the GenCyber promotional video and also helped with configuring Arduinos.

- Discussion points
  - Dr. Ezekiel suggested using TinkerCAD to simulate sensor data since there was no other data yet collected.
  - It’s time for midterms, so keep reasonable work/research/studying expectations.

- Tasks:
  - Emily
    - Finish up gen-cyber video
  - Maria and Zaryn
    - Once data comes in, verify it, preprocess it if it will work, and start applying algorithms
    - Maria should continue to work on the IEEE paper
  - Meghan, Hector, Zach
    - Learn how to use TinkerCAD and determine how it can best be used to create sensor data.
    - Look into what network parameters can be reported by the Arduinos and add this to the data sent to ThingsBoard
  - Drew, Nate, Sky, Emily, anyone else
    - Utilize the new paid version of ThingsBoard
    - Determine the capabilities of Wireshark in collecting network data needed to recreate datasets used in part one of the study
    - Explore what network parameters can be reported by the Arduinos and add this to the data sent to ThingsBoard

Adjournment at 6:30
Next meeting will be held on Friday, October 7, at 6:00 pm