

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