

# Zero Trust Research Project (ARMZTA) Meeting Minutes

11-29-2023

## Participants

- Dr. Waleed Farag (PI)
- Dr. Soundararajan Ezekiel
- Dr. Xin-Wen Wu
- Jared Giesen
- Micah Sherry
- Justin Benedict
- Nicholas Reid
- Drew Rado

Meeting started at 4:00 pm

## Progress Report

- Jared
  - Working on 6 month report summary for Dr. Wu.
- Drew
  - Editing and revising the lot latest IoT paper.
- Micah
  - Ran multiple versions of DCNN on the static dataset, including Googlenet, VGG16, VGG19, and ResNet50 in progress, with up to an 84% accuracy at 15 classifications.
  - Received and began setting up the Network Tap for the live data feed.
- Justin
  - Applied an XGBoost algorithm to the static set and is troubleshooting its performance.
- Nicholas
  - All HR steps are complete.

## Discussion Points

- Two posters will be needed for the next scholar's forum
- Be sure to update Dr. Ezekiel on progress ahead of meetings

## Tasks

- Team
  - Implement a static dataset model
  - Work towards a detection algorithm for live feed data
- Jared
  - Finish and edit the ARMZTA summary for Dr. Wu.
- Drew
  - Prepare all current students for handover, especially Micah for the Zeek-Kafka server.
  - Continue to finalize the IoT paper.

- Micah
  - Continue to run the various implementations of DCNN, and run them with varying test/train splits.
- Justin
  - Troubleshoot the XGBoost algorithm for the static dataset and begin developing the SVM algorithm.
- Nicholas
  - Update the testbed documentation pdf with Drew.
  - Learn more about the Kafka Integration.

Adjournment at 4:55 pm

Next meeting will be held on Wednesday, Dec. 6th at 4:00 pm