Agenda for Sept. 28, 2020 Meeting

CAE-C Research Project in AY 2020-21

Announcements:

- We agreed that we will be meeting weekly on Mondays, at 5 PM. Please use the Zoom link provided to you via email.

Discussions:

- Below is a brief description that outlines the tasks (focusing on smart buildings) assigned to student researchers last week:

1. What are the major applications for a typical IoT based smart building, for each of these applications, describe the data format – the applications and their data formats will be critical for us to select anomaly detection algorithms and adapt them if necessary.

2. What devices are used for network switching and routing purposes? What communication media are used for a typical smart building? What operating systems are used?

3. In the perception layer (see the given Figure), what devices are connected to the IoT? For each type of these devices, give a description including:

    - What operating system is used?

    - How data are collected and communicated?

    - What is the data format?

    - What are the basic security mechanisms? Any authentication? Any ID management?

    - A vulnerability analysis, including, for example, what are the most vulnerable devices against malicious intrusion?
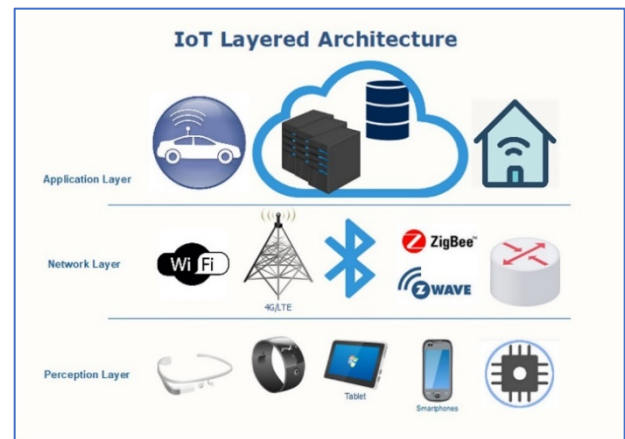
- Discussion of first group work progress (Alex and Cassandra).

- Discussion of second group work progress (John and Ethan).

- Discussion of issues and/or challenges.

Questions and Adjournment: