**IoT Security and Privacy**

**30 points**

### Instructions:

1. Note: Blue text points to a web link. Ctrl + Click to follow link.
2. This is a team assignment. However, each member of the team has to submit the finished assignment. Those who do not submit will get zero for this assignment.
3. Answers to all questions must be put into **ONE** document. That is, every time, each student can only submit one report document, answering all questions of this assignment.
4. Students must put answers following each question in this assignment. The instructor will not grade a report with only answers in it and the student gets zero for such an assignment. An assignment report must include original questions.
5. Students MUST submit the finished assignment in either Microsoft Word or pdf format to Blackboard. The doc must be submitted as ONE standalone file and cannot be tarred or zipped into a container.
6. Refer to [Print screen](http://en.wikipedia.org/wiki/Print_screen) on how to take a screenshot. Pressing the Alt key in combination with PrtSc will capture the currently selected window.

**Requirements:**

1. In this project, students are required to control an IoT device from a PC or smart device such as a smartphone through a MQTT server or the Amazon AWS IoT. All the communication should be encrypted and mutual authentication between the IoT device and the MQTT server/Amazon AWS IoT must be applied. The IoT device should be deployed at an appropriate location at the choice of a group, which should collect at least 4 days’ data. The data should demonstrate that the device achieves its designed goal and must be presented at the presentation. (10 points)

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1. PowerPoint presentation presented in class on April 27, 2017 by all groups. (10 points)

Each presentation should be 10 minutes including questions.

1. Please zip or tar or rar all of the related code into one file (called a containment file) and upload it to Blackboard. Within the containment file, please include one text file called README, which introduces the folders and files within the containment file. Please note: this containment file should NOT include the paper or slides.

Therefore, each student is required to submit two files:

* 1. The presentation (5 points)
  2. The containment file (5 points)