**IoT Security and Privacy**

**Assignment 2 – Lab Environment**

**(10 points)**

### Instructions

**Please read the instructions carefully. Those students who fail to follow the instructions may get a zero score for this assignment.**

1. This is an individual assignment.
2. Answer each question following the original question. Do NOT delete the original question.
3. Answers to all questions must be put into **ONE** document.
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. All required files or docs must be submitted in one submission. Note: Blackboard allows unlimited number of submissions of one assignment by students and the instructor counts only the last one.
7. Refer to [Print screen](http://en.wikipedia.org/wiki/Print_screen) on how to take a screenshot.
8. Underlined blue text points to a web link. Ctrl + Click to follow link.

**Questions**

Please refer to [Get started with ESP32 via VS Code and the ESP-IDF extension](https://github.com/xinwenfu/tst-dht-lab--pcb-2)

1. Read *Install VirtualBox and Import Ubuntu VM Appliance*. Please include a screenshot below showing the Ubuntu VM within VirtualBox. (1 point)
2. Read *Connect the IoT kit to the host OS*. Please include a photo of the IoT kit connected to the PC. (1 point)
3. Read *Install USB to UART Bridge Driver*. Please include a screenshot below showing the IoT device within the Windows device manager or */dev* on macOS/Linux on the host operating system. (2 points)
4. Read *Start and log into the Ubuntu VM*. Please include a screenshot below showing IoT device within /dev on the Ubuntu VM. (2 points)
5. Read *Clone the project*. Please include a screenshot below showing the project folder of *aht-lab* on the Ubuntu VM. (2 points)
6. Read *Build, Upload and Test*. Please include a screenshot below the temperature and humidity readings in the serial monitor (called terminal too) within VS Code. (2 points)