

CS 531 – Fall 2020

SECURITY IN CYBER-PHYSICAL SYSTEMS

Homework #1

Due: 9/24/2020 11:30PM

Notes: (1) You are welcome to use any figure/text that you find online as long as you cite its source. (2) Please answer what is being asked only. Do not make your answer look like a book chapter.

Q1) Find a CPS example and explain it in short with its all components. Do not forget to mention potential security problems with that CPS example. (40p)

Q2) Compare and contrast CPS vs. IoT. (10p)

Q3) Give three different examples of standardized PLC programming languages and explain them. (30p)

Q4) Investigate PLC programming environments and give one example in detail. (20p)