

EE/CprE/SE 492 GROUP PROGRESS REPORT

Group number: 14

Project title: Development of IoT Components for the CDC

Client: Daji Qiao

Advisor: Daji Qiao

Team Members: Jacob Foster, Megan Litterer, Jake Martin, Justin Tyler, Noah Frederiksen

- **Project Summary:** We are making several IoT (Internet of Things) devices for the CDC (Cyber Defense Competition). The first deliverable is a virtual smart plug that the CDC can use as part of their main story. It will control if a website we are designing will be off or on. After that we will then make a miniature version of ISEAGE2.0 and our devices so a high school or community college can put their own CDC on. Another deliverable will be a physical IoT device. We have selected a camera for this which will be used in an anomaly (bonus mini-objective). A final deliverable will be completing last year's virtual camera. They had a device that was mostly functional, but the documentation has rendered it unusable.
- **Accomplishments** *(Please describe/summarize as to what was done, by whom, when and, collectively as a group since the last report. This should be about a paragraph or two in length. Bulleted points are acceptable as well. Please keep only your technical details related to your project. Figures, schematics, flow diagrams, pseudocode, and project related results are acceptable, but please ensure that they are legible (clear enough to read) and to provide an explanation. If researching a topic, please add a few details about what was learned and how it is relevant to the project. If two or more people worked on a single task, be sure to distinguish how each member contributed to the task. Specific details relating to the assistance provided to other members may be included here.)*
 - Jake Martin - Worked on adding vulnerabilities to the Smart Plug virtual machine (vulnerable FTP server). Worked on providing documentation for CDC for Blue and White Teams. Started adding questions to the CDC survey for feedback.
 - Megan Litterer - Researched vulnerabilities for the Smart Plug virtual machine. Added questions to the CDC survey.
 - Justin Tyler - Worked on the physical camera. Found that wifi-connections are impossible due to ISU security measures and hotspots are too burdensome upon the CDC staff. Potentially found an alternative route for using the physical device in ISU's CDC. Also developed several scenarios for the camera to be used in.
 - Jacob Foster - Reviewed documentation released by the CDC to the blue team. Registered for the CDC
 - Noah Frederiksen - Proof-read and reviewed documents handed over to the CDC team
- **Pending issues** *(If applicable: Were there any unexpected complications? Please elaborate.)*

Minor issue of a USB to SD card adaptor is needed to set-up the physical camera.

○ **Advisor Input/Signature:**

Please select one of the options below and sign.

- I am pleased with the progress the team is making.
 The teams progress could use some minor improvements which I will discuss with them.
 The team's progress has some major concerns that I will discuss directly with Dr. Bigelow
bigelow@iastate.edu , 515-294-4177

Signature: _____

○ **Client Input/Signature:**

Please select one of the options below and sign.

- I am pleased with the progress the team is making.
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Signature: _____

Email reply regarding group report 2:



Qiao, Daji [E CPE]

to me ▼

Progress looks good. I approve the group report.

Thanks.

Daji

