

CPRE 492 WEEKLY REPORT

MAY15-25

Report 4

Advisor: Lee Harker

Client: Lee Harker / Department of Electrical and Computer Engineering

Project Title: CyLocker Access System

Group Roles

Team Leader ->	Nathan Castek
Team WebMaster ->	Corey Coazzato
Team Communicator ->	Nathan Lafferty
Team Key Concept ->	Priyank Patel
Team Technical Leader ->	Mohammad Syazwan

Report Summary

Varying progress impediments
LCU circuit design is being finalized
Raspberry Pi's ship very slowly

Accomplishments

Fixed transistor issue w/ Servo

Meeting Minutes

Date: 2/17/15

Duration: 25 minutes

Attendance:

Nathan Castek
Nathan Lafferty
Mohammad Syazwan
Priyank Patel
Corey Coazzato

Summary:

Prior Accomplishments

Next week's goals

Determined progress impediments

Castek working w/ Corey to attempt to fix Servo

Progress Impediments

Lafferty - Waiting on Raspberry Pi Model 2B+ to arrive
Corey - Can't get servo to power on

Individual Contributions

(Name) (this report, total)

Castek: 4.5, 14

- Figured out transistor circuit at the subcomponent level (3.5)
- Meeting with Lee and team meeting (1)
 - Testing tomorrow night

Corey: 3, 10

- Revised arduino code
- Changed sleep timer
 - XBee and Arduino interval is 5 seconds
- Started reading voltage from above 4 volts
- Fixed Red LED Issue

Lafferty: 1, 9.5

- Check for Raspberry Pi Model (0.5)
- Revised database models (0.5)

Priyank: 2.5, 11.0

- Research on battery voltage (0.5)
- Testing on circuitry (1)
- research on capacitor for voltage regulator (0.5)
- meeting with Lee (0.5)

Mohammad: 3.0, 11.5

- Research on battery voltage (0.5)
- Testing on circuitry (1.0)
- Updated PCB Design (1.0)
 - Changed LED components, added register values
- meeting with Lee (0.5)

Plans

Corey:

- Integration testing w/ EE's
- Add communication
- Update website

Lafferty:

- Receive new Raspberry Pi Model
- Install MySQL/Python / Software onto raspberry pi
- Start looking into external security libraries
- Begin defining packet structure w/ Corey

EEs:

- Integration testing on 2/18/15
 - If it works, "everything works"
- Take official current measurements, determine changes accordingly

Priyank:

- Learning Laser Design / Get certification

Muhammad:

- Finalize PCB Design

Castek:

- Mounting Cases certification for LCU

