

Team 10

Project Title: Smart Door Lock

Date: 11/8/21

## Members:

James Gossling

Jackson Lopata

Hailey Lucas

Eric Reusch

Francis Mago

Isaac Stich

Christian Williams

## What we've accomplished in the past week/what we've been researching

James Gossling: parts list, system sketch, began filling in website

Jackson Lopata: close to finalizing mechanical parts list, mechanical design CAD work

Hailey Lucas: read over Professionalism documents for assignment, researching libraries for DRV8833 motor driver

Eric Reusch: Continued personal research on hardware-software interactions we may need, ready for future implementation

Francis Mago: Looked into using google collabs provided to train a keyword spotter alternatively to edge impulse.

Isaac Stich: Continued looking over the datasheet for the Arduino BLE Sense.

Christian Williams: Familiarizing myself with the Arduino BLE Sense and the libraries that we may use

## What we're planning to do in the coming week

James Gossling: continue with website design, order parts, state machine research and how it will relate to the arduino code

Jackson Lopata: Finalize mechanical parts list, continue working on CAD design

Hailey Lucas: continue research on libraries, maybe help with website and state diagram

Eric Reusch: Continue personal research and create state machine diagram for future project development

Francis Mago: Try and work out how the google collabs work and if they can be deployed to edge impulse.

Isaac Stich: Keep looking into the datasheet and begin to think about the signals that the motors will need in order to operate.

Christian Williams: Go in depth with the searching and implementation of libraries. Probably focus more on the audio libraries to see how those work.

### Issues we had in the previous week

James Gossling: None

Jackson Lopata: None

Hailey Lucas: None

Eric Reusch: None

Francis Mago: None

Isaac Stich: None

Christian Williams: None