# Overview

Our project is a prototype for a high-security RFID door lock system. The program involves 2 Arduinos, a master and a slave. The master runs all the hardware components, including an RFID scanner, 2 buttons, a piezo speaker, a screen and a servo (to represent the door lock mechanism). The slave Arduino controls the security and has no hardware components. They’re both connected through Bluetooth serial, using HC-05 modules.

# Specification

## Face Detection

Open CV HAAR detection, as the door will typically be in the same place, so lighting conditions shouldn’t change much, and is more accurate. The computational power required

# Implementation

# Difficulties

# Conclusion

# References

<https://www.youtube.com/watch?v=Q8QlNuTUe4M>

<https://realpython.com/face-detection-in-python-using-a-webcam/>

<https://docs.opencv.org/3.4.3/d7/d8b/tutorial_py_face_detection.html>

<https://www.arduino.cc/en/Tutorial/AnalogInputPins>