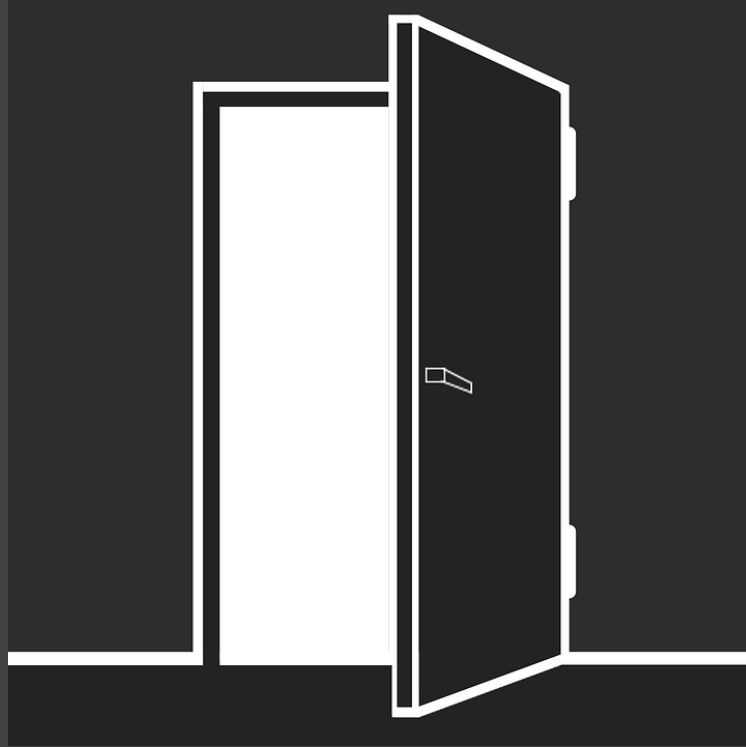


Securi-Door

ESE 205

Clayton Keating and Savannah Rush





Have you ever forgotten if you've
locked your door?

Securi-Door users will:

- Be able to log on to our website
- Remotely capture an image and see who is at their door
- On the website, choose to lock or unlock their door using a Raspberry Pi locking mechanism

Project Objectives

- Successfully lock and unlock a door using the website from a range of at least 100 meters away
- Establish communication between the Raspberry Pi mechanism and the website
- Provide secure login and registration features on the website
- Add more features, such as motion sensors, alarms, etc.

Challenges

- Familiarization with the Raspberry Pi
- Building a housing structure for the Pi such that it can be attached to a door
- Maximizing the range of communication between the Pi mechanism and the website
- Ensuring security of the website

Budget

- MCM Electronics TowerPro SG-5 Standard Servo-\$11.99
- MCM Electronics Raspberry Pi 3 Model B Board and Case Kit-\$42.99
- Single Cylinder Bright Brass Residential Deadbolt-\$10.48
- 2 in x 4 in x 8 ft #2 Prime Cedar-Tone Treated Lumber-\$4.98
- Website Hosting and Domain-\$5.95/month for total of \$17.85
- 3D Printing Materials (Free -- Provided)
- Breadboard and Resistors (Free -- Provided)
- Total Budget: \$88.29**