Door Opening Project Documentation

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Description

I created a project that can open the door to my dorm room from the inside while I am on the outside. It does so over my wireless network without the need for a physical key.

Software

I wrote an **Android app** in Java.
The source code is available on GitHub.

I wrote the **Arduino code** in C.
The source code is available on GitHub.

Hardware

I shopped at Adafruit to acquire all of my hardware.

1x Arduino UNO (the brain of the operation)
1x Arduino Ethernet Shield (to communicate with the local network)
1x Magnetic switch (to tell whether the door is closed)
1x Standard servo (to turn the handle)

Demonstration

I have a YouTube video showing an earlier, more featured prototype of this project.