Project Summary

The home security market is currently dominated by smart lock companies, like Ring and Nest. These solutions are vulnerable to power outages and hacking, and often require complex installation. Our innovative sensors offer a more reliable and affordable alternative. These simply installed devices allow users to remotely monitor their door's lock status at a fraction of the price of traditional smart locks without the complexity or vulnerability.

Final Design

How it Works

Fig. 2: non-invasive sensor exploded assembly
Fig. 3: invasive sensor exploded assembly

Product Features

- **MCU**: Robust, power-efficient, WiFi enable computer
- **Sensor**: Tracks the position of door locking mechanisms
- **Adafruit Server**: Enables devices to connect to the sensor
- **Mobile/Web App**: Displays lock status of users' doors, user guide

Future Improvements

- **Battery Life**: Improve power efficiency and battery capacity
- **AWS**: Integrate AWS for stronger cloud computation
- **Smart Devices**: Smart home device compatibility for accessibility
- **Notifications**: Lock reminders before users leave the driveway
- **Miniaturize**: Scale down product dimensionally

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