**Project Proposal**

**smartGuard**

A Security device with the following functionalities:

* when it detects something in certain range, it takes a picture and sends a text message using Twilio API Services
* Use voice and visual recognition to activate an deactivate the system.
* When it doesn’t recognize the voice command, it triggers an alarm (LEDs and Speaker).
* Give owner ability to unlock and lock door which will be represented in the form of an LED

**Tools:** Raspberry Pi, visual recognition API (IBM or Google cloud services), speech-to-text and text-to-speech APIs (IBM or Google cloud services), Proximity sensor, IP camera, SMS API(Twilio), Speaker, LEDs, Node-RED, Python.