

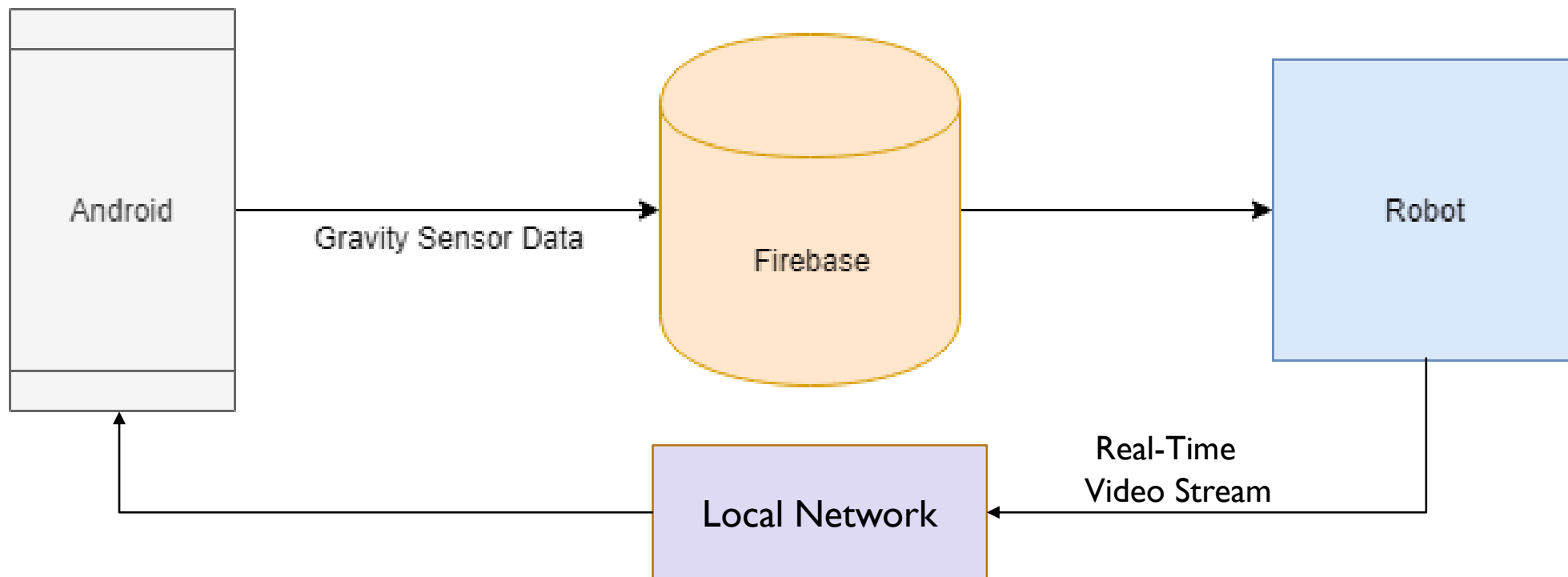
PERCEPTOBOT

ECE 558 – Fall 2018

Mrunal Hirve

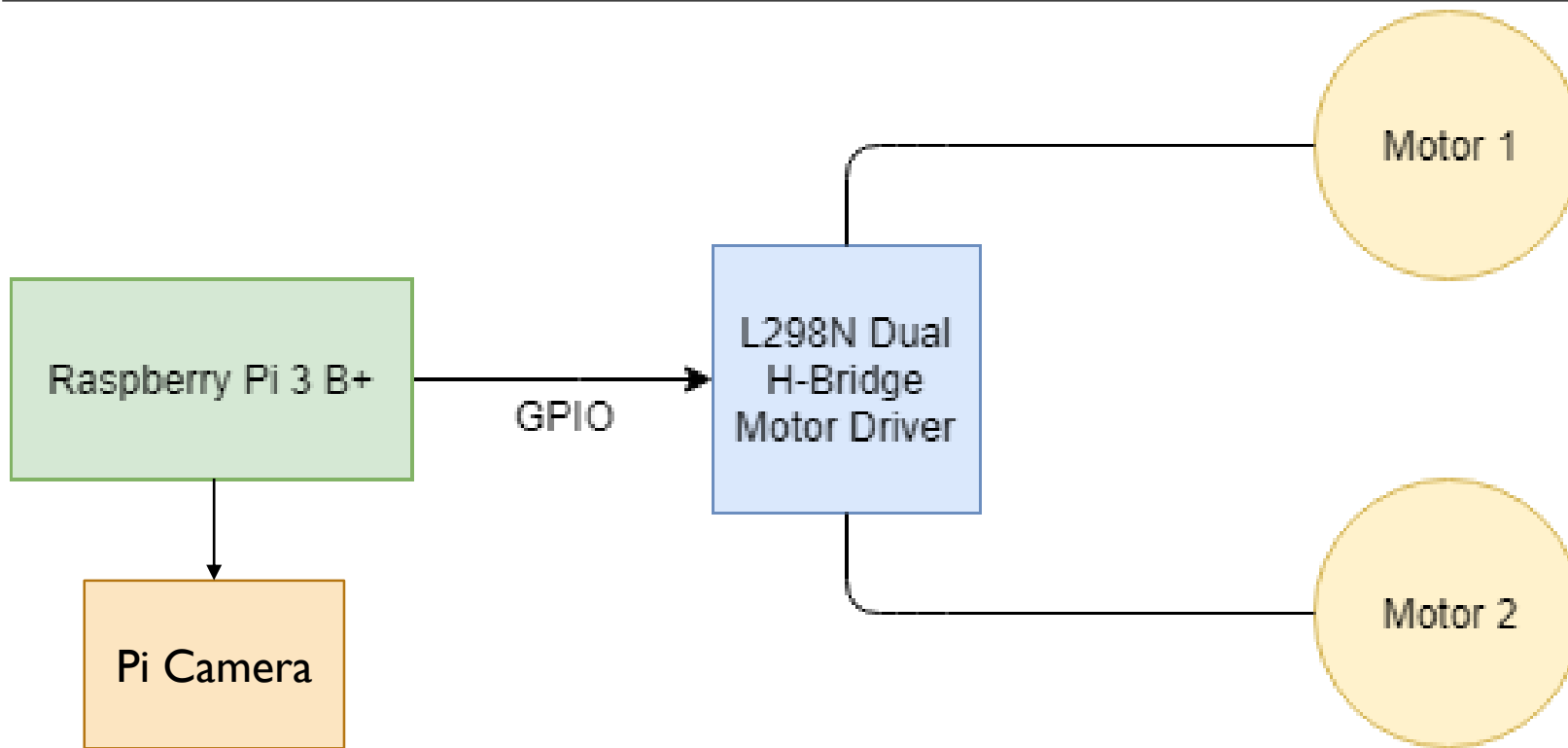
Shubham Vasaikar

DESIGN




DEMO

HARDWARE DESIGN



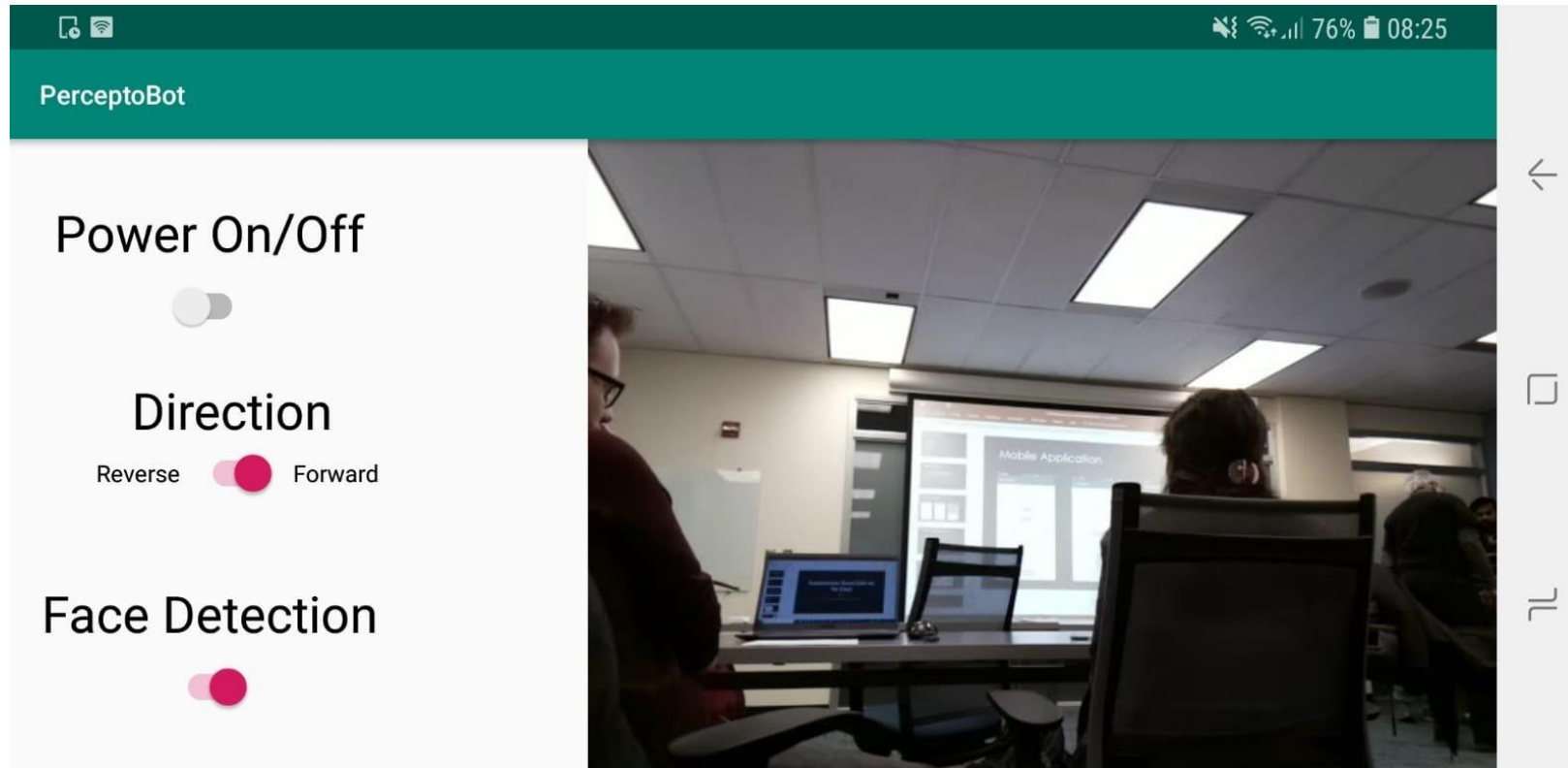
FIREBASE

 <https://perceptobot.firebaseio.com/>

perceptobot

```
IP: "192.168.43.245"  
direction: true  
faceDetection: true  
lateralAcc: 0  
linearAcc: 0  
robotOn: false
```

APP



STRETCH GOALS



2/2 completed



Stream video from Pi Camera
mounted on robot to the Android
app



Use the camera to detect faces and
follow the movement of the faces

CHALLENGES



Weight imbalance of robot



Python-Firebase Interface



OpenCV Installation



Video Streaming

QUESTIONS

Thank you Prof. Kravitz