`Team 39

Project Name: Apple Beta Pineapple

Group Members:

Dilshan Diunugala

Kelly Cheng

Luke Jung

Arielle Dobrowolski

Carrie Yan

**Gist**:

We were able to use bluetooth communication between a sensor circuit and a servo equipped circuit and to successfully have the latter circuit respond to specific hand gestures. In today’s demonstration we will demonstrate the connectivity by raising a flag model using hand swipes.

**Purpose**:

By being able to detect motion changes and to wireless communicate within roughly a ten meter range can prove handy and convenient within the home environment, e.g. using hand gestures downstairs to close some blinds in a certain room. The bluetooth range is ideal for a home setting and could provide an alternative to fully integrated IOT connected devices.

**Possible Additions:**

**Main Parts List:**

2x Arduino Nano

2 HC-05 Bluetooth Modules

1 Gesture Sensor, APDS-9960

1 Arduino-compatible Motor

6+ Assorted LED’s