

PYTHON FINAL PROJECT

MASS OF A BODY USING PRESSURE PAD

– By Team Floppy

INTRODUCTION — WHAT IS A PRESSURE PAD?

A Pressure Pad Sensor is an electronic device assembly that measures the forces exerted between any two objects. The Pressure Pad Sensor commonly consists of multiple sensing elements that are arrayed on or within a flexible cushion.

COMPONENTS REQUIRED

1. Pressure Pad
2. 1m Resistor
3. 1uf Capacitor
4. Raspberry Pi
5. Micro SD Card
6. Power Supply
7. Breadboard

THEORY

$P=F/A$ (Pressure)

$F=ma=mg$ (Body is at rest)

$m=(P*A)/g$ (Mass of the body)