Name: Peitam Gotiram Mogal
Div :- TE B [comp]
Roll No: 17
Sub: ESIOT

Experiment no :- 1
Aim :- Study of Rasbery -Pi, Beagle board, Arduino
and other micro controller.

Theory :
Study of Rasberry Pi3 :-
The Rasberry Pi is a series of small single-
board comp developed in UK by Rasberry Pi
foundation to promote teaching of basic computer
Science in school & in developing countries.
A Rasberry Pi zero with smaller size & reduced
I/O + general -purpose i/o capabilities was realeased
in Nav 15 for USA5 Rasberry Pi3 model B was realeased
in Nav 15 for FEb 16 & has on board with
bluetooth & USB boot Capabilities Processor
Speed ranges from 700m Hz to 1.2 GHz for Pi3 ,on
board meomory ranges from 256 mB to 1 GB.

Rasberry Pi3 model B :-
In 2006 , early concepts of Rasberry Pi ,were
based on Admel . A Imega644 microcontroller. The
Computer is inspired by Acorns BOe micro of 1981.

Study of Beagle board :-
The Beagle Board is low-power-open source single
board computer produced by Texas Instruments in
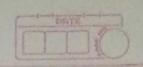association with Digi Key .

Fig.1. Raspberry Pi3 Kit

Fig.2.Beagle Bone Kit

\

Arduino Kit Fig.3.

to teach open source hardware & software capabilities. The board was designed using cadence OrCAD for schematics & cadence allegro for PCB manufacturing ; no simulation software was used.

Study of Arduino :-

The Arduino project started at Interaction Design Institute Ivrea, Italy.

The initial Arduino core team consisted of massimo Banzi, David cuartielles, Tom Igoe, David mellis but Barragan was not invited to participate.

Adafruit Industries, a new York City supplier of arduino boards parts & assemblies estimated in mid -2011 that over 30,000 official Arduinos had been commercially produced & in 2013 that 700,00 official boards were in users hands.

In April 2017, wired reported that musto had "fabricated his academic record on his company's website, personal Linked in accounts & even on italian business doc, musto was until recently listed as holding a PHD from massachusetts institute of technology.

Arounded that same time, massimo Banzi announced that Arduino foundation would be "a new beginning to arduino" But a year later, foundation still hasn't been established & state of project remains sun clear. Arduino intends to continue to work with all technology vendors & architectures.

Conclusion :-

Thus, we have studied history of Raspberry Pi, Beagle bone and Arduino.