Aim: - Study of Raspberry-Pi, Beagle board, Andaho and other micro controller (History & Elevation)

Shirty of Raspberry Pi3:—The Haspberry Pi is a Sexient of Small single-board Computers developed in the United Kingdom by the Haspberry Pi foundation to promote the teaching of basic concepts of computer Science in Schools & in developing Countries The Original model because fair morie populair than enricipated, The first generation (Raspberry Pil Model B) was ruleased in February 2012, followed by the simpler and cheaper Model A. A maspherry pie zero with Smaller size & reduced in put lowput (I/o) and general purpose input loutput capabilities was released in November 2015 for USSS. Raspberry Pi 3 Model B was released in february 2016 & has on-board wifi, Bluetooth & USB 5001 capabilities. By 2017, it bez the newest mainline Raspherry Pi, on 28 Feb 2017. HDMI & compositevideo au supported with a Standard 3.5 mmphono jack for audio output lower level off is provided by a number of GPO pins which support common protocols like 12c. The B-Models have an 8P8C Ethernet port & the Pi3 & Pi zerro w have on-board wifi 802-11n & Blueto m. Prices mange US\$5 to \$35.

History and Elevation:

In 2006 carly concept of raspberry Pi were based on the Atmel Atmes as Microcontroller. 915

Schematics and PCB dayout are publically available foundation wise trustee Eben upon assembled a group of teachers, academics & computer enthusiasts to device a computer to inspire children. The Computer is inspired by Alorn's BBC Missio of 1981. The Model A, Model B & Model Bt names are references to the original models of the British educational BBC Micro Computer, dueloped by Alorn Computers.

The foundation's goal was to after two version priced at US\$25 & \$35. They steveled allepting anders for the higher priced Mochel B on 29 Feb 2012. The lower cost model Ann 4 Feb 2013 & the even lower cost CUS\$ 20) A + on 10 Nov 2014. On 2015 26 Nov. The cheapest Raspherry Pryet, the Haspberry Pizero, was launched as US\$5

Study of Beagle Board:

The beagle board is low power opensource single board computer produced by Icam Gostrumenkings association with Digi-Key & Newark element 14.

The beagle board was also disigned with Open Source slw development in mind, and as a way of demonstrating the Texas Anstrumenk OMAPSI. 30 System-on-a chip The board was developed by a Small team of engineers as an educational board that could be used in colleges around the world to kach open source how & slw capabilities of its also sold to public under the Creative Commons Share alike license. The board was designed using ladence Orcap for Schematics & Cadence Allegro for PCB Manufacturing; no Simulation slw was used.

Study of Andlino: The Ardenino project slaved at the interaction design institute Iwaa (IDIT) in ivrea, glaly Althat time, the students used a BASIC Stamp microconmoller at a cost of \$100, a considerable expense for many students. In 2003 Hernando Barrage created the development platform Miring as a Mouster's thesis projects at IDII, under the supervision of Massimo Banzi & lasey Reas, who are known for work on the Processing language. The initial Andrino love term consisted of massimo Banzi, David Currilles versions, Tom Igoe, Gianluca Martino, and David Mellis, but barragin was not invited to participate. tollowing the longletion of the wiring prog, lighter and loss expensive versions niere distributed in the Open source Community. Adafruit Industries, a New york eity Supplierof arduino bounds, parks and assemblies, estimated inmid-2011 that over 800,000 official aurduino has been lonner cially produced & in 2013 that 700,000 official boards were in users hands. Around the Same time Massimo Banzi unnounced that the arduino Joundation would be a new begining for auduino But a year lavor, the Joundation SHII hasn't been estublished, and the state of the project remains sun clear the controversy surrounding mustro continued when, in judy 2017, he suportedly pulled many open source lucenses, 8 chematics & code from the arduino nubSite, prompting Seweity Secuting & outery:

An October 2017, Andwing cannounced in partnership with ARM Holdings (ARM). The cannouncement Said, in part, "ARM secognized independence as a cone value of ardwing without any lock-in with the ARM architectwee." Andwing intends to lonkinue to work with all technology vendors & architectures.

Conclusion:

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Reagle bone and Andwing.