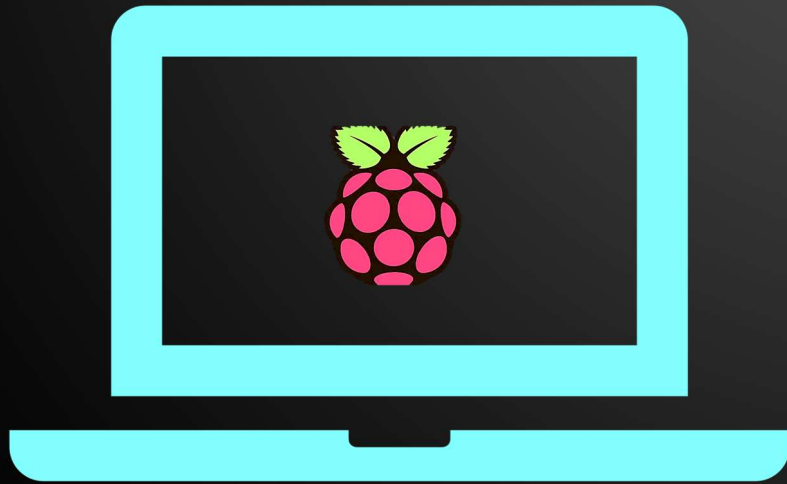


RASPBERRY PI 4 LAPTOP



THE LAP-PI

The Lap-Pi 4



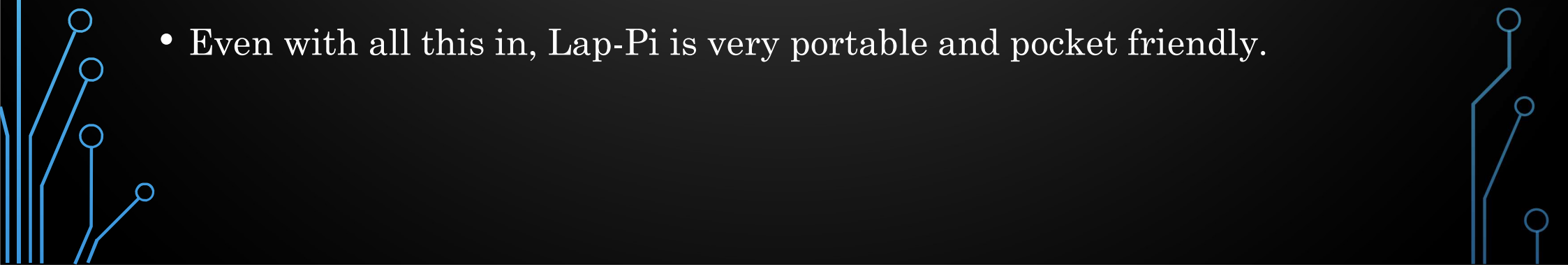
A decorative background pattern consisting of light blue lines and circles, resembling a circuit board or a stylized network, is positioned along the left and right edges of the slide.

OVERVIEW

- This is a mini-sized Raspberry pi laptop which can do almost all tasks that you can expect from a standard laptop.
- It is based on Linux and is controlled by a credit card sized CPU, The Raspberry pi 4.
- Unlike other laptops this laptop supports multiple operating systems giving you the choice to choose which OS to boot with.

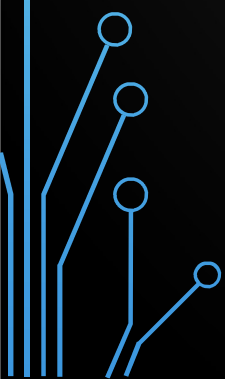




FEATURES & BENEFITS

- This 3D printed laptop features a modern SSD to store its operating systems which makes it 10 times faster than the laptops using Hard disk.
 - With the support of Dual-displays you can take your experience to the next level.
 - It has a High resolution touch-screen with high contrast and vivid colours.
 - Even with all this in, Lap-Pi is very portable and pocket friendly.
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APPLICATIONS

- Lap-Pi is pretty suitable for home and education use, it is even suitable for work sometimes as it handles most of the things easily(ie. Libre office, Mails and stuff like that).
 - It can even be used to test codes and learn coding, electronics, circuitry etc. as it has many programming softwares of Python, Java, Scratch and C++.
 - It can be used to create various electronic circuits by taking the use of GPIO pins.
 - So Lap-Pi is a general purpose machine that you can use as a secondary PC along with your main computer which would definitely make your work easy.
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SPECIFICATIONS OF THE LAP-PI

- The Lap-Pi has a Broadcom BCM2711, Quad core Cortex-A72 clocked @ 1.5GHz
- It features a 7inch Capacitive Touch Screen (1024×600) IPS display.
- It is packed with 4 GB of RAM & 240GB of storage space (SSD).
- It has 3 USB 3.0 ports, a 3.5mm audio jack, a LAN port & 2 micro HDMI ports(Dual displays).
- The Lap-Pi has built-in speakers (6 Watt) which gives a pretty nice sound quality.
- It also features Bluetooth and Wifi connectivity.
- Comes with a Mini Wireless Keyboard with Touch-pad.

All this inside the Lap-Pi makes it a perfect general-purpose PC

THE MAKING

When I got the idea of making my own customized laptop I started thinking of the materials and the components which would suit best (balancing the performance, quality & and size) for a mini-sized laptop like this. So I started searching the web, and listed the materials and components to use. I even had to manage the budget of the project so by keeping all the aspects in mind I ordered the materials balancing the price and quality.

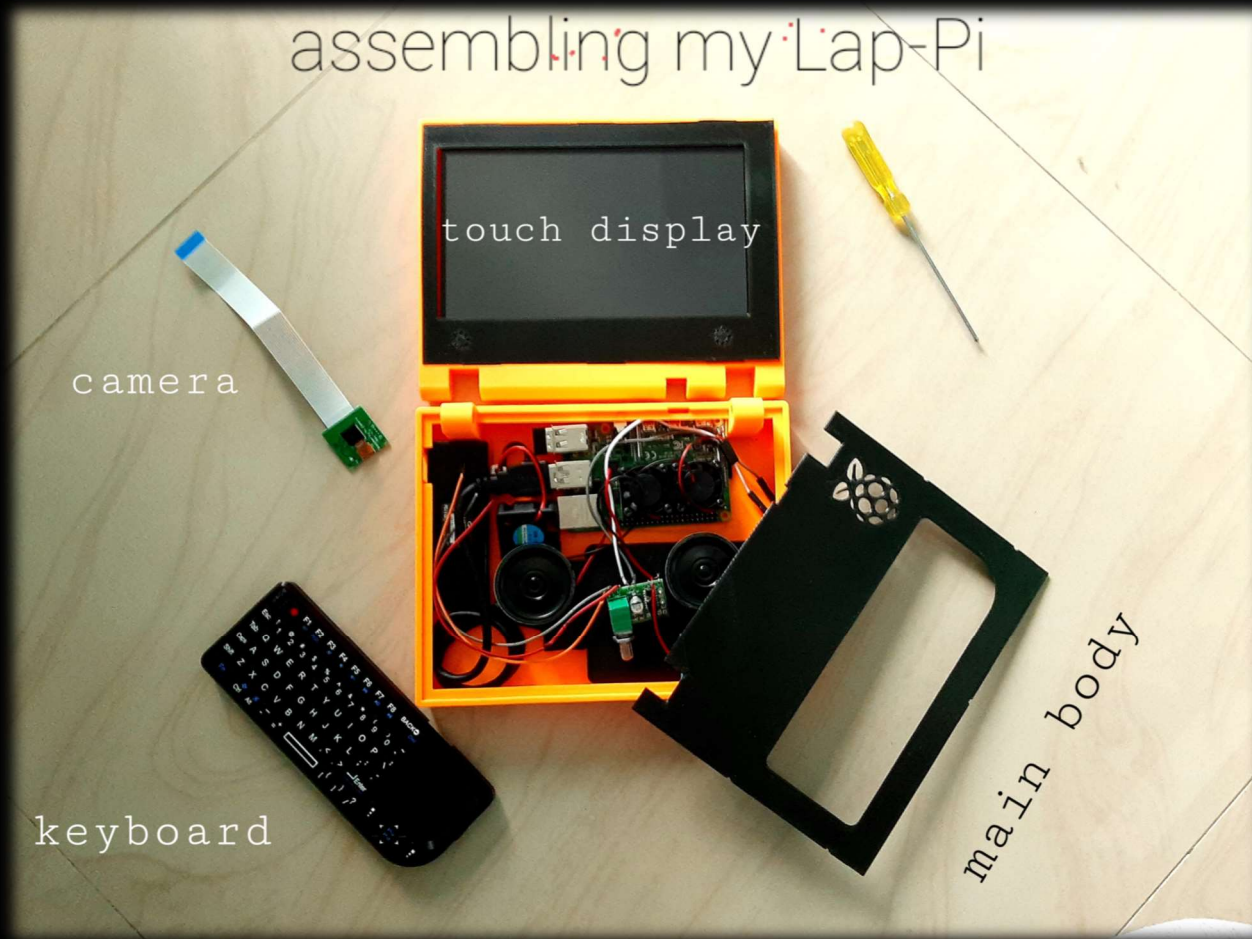
After getting the components I ordered the 3-D case of the laptop which was pre-designed. I had to choose which operating systems to load with, I also first needed to modify and configure the code of those OS for being able to get it running on a 7 inch Display. So now the software part was completed successfully. Then comes the hardware part. I had to manage to fit all the components inside the small case, but then I realized that the space is not enough and I had to buy a more slim battery but it was crossing the decided budget so I had to drop the plan. Then comes the audio part, so I soldered the speakers and its circuit and after a little tinkering the audio was running fine. Then I assembled the components inside the case. And after many unsuccessful attempts I finally managed to get everything inside and The Lap-Pi was completely ready and working well.

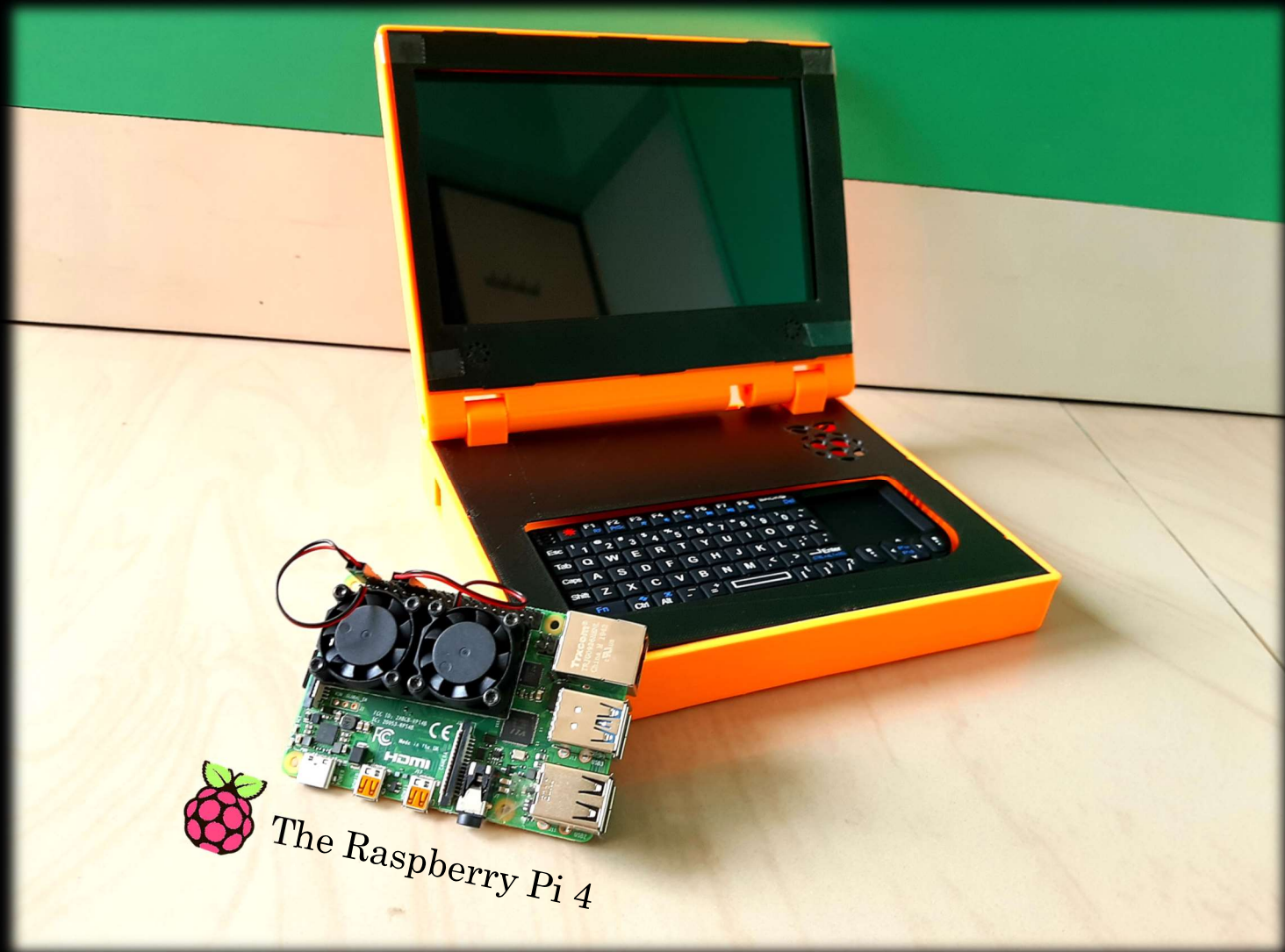
PRICING

- The total cost of the Lap-Pi is 20,000 INR, including the :
 - 3D printed laptop body
 - The Raspberry pi 4
 - And all the other components
 - Display
 - Keyboard
 - Speakers
 - And a few other micro-controllers, circuits, ICs.

GALLERY

assembling my Lap-Pi





The Raspberry Pi 4



