

Masafumi Ohta

- Masafumi used to Core Contributor for OpenSolaris project by Sun Microsystems, had OpenSolaris-laptopporting project and helped Automate Installer project.
- Masafumi has founded Japanese Raspberry Pi Users group with some Raspberry Pi nerd and geeks, and he has been volunteering Raspberry Pi Foundation since 2012.
- Masafumi has become Active User Committer at OpenStack Foundation contributing Infra Project at big-name Automotive company in Japan
- Masafumi has become ARM INNOVATOR helping ARM business in Japan.



日本語フォーラムについて

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Raspberry Pi®

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1 post

by masafumi ohta

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» Fri Dec 14, 2012

2:14 pm

太田といいます。何人かの日本の皆さんはじめまして。日本Raspberry PIユーザグループの代表をしてます。

ようやっと悲願でもありました日本語フォーラムを作っていただきました。まずここまで来たことに日本のコミュ ニティメンバーの皆さん、また日本でこの機械をお使いいただいている方、これからお使いいただこうと考えてい る皆さんに御礼申し上げます。

是非今後日本のコミュニティを盛り立てるためにもどうぞこのフォーラムをどしどしお使いくださいませ。普段日 常のお仕事もあり、ポスト承認がおくれちゃったらごめんなさい、なのですが、できる限りスムーズに皆様がここ でいろいろお話できるよう、頑張ります。

#ちょっとさっきまで他のモデレータにおせぇぞ承認とおこられますた ♥



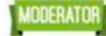
で、スパムや商品売り込みに関しては結構厳しくやってます...他のモデレータも他国のフォーラムであってもキチン と見てます。スパムやあやしい商品売り込みであろうポストは僕以外からも削除されることをあしからず承知くだ さいませ。(Google翻訳で調べているようですよ、まぢで)

基本ルールは通常のこういうOSS系フォーラムと変わりありません。節度と紳士淑女であらんことを。なにか使い 方でご不明な点などありましたらどしどし太田までください。

ではでは、太田でした。



Forum Moderator



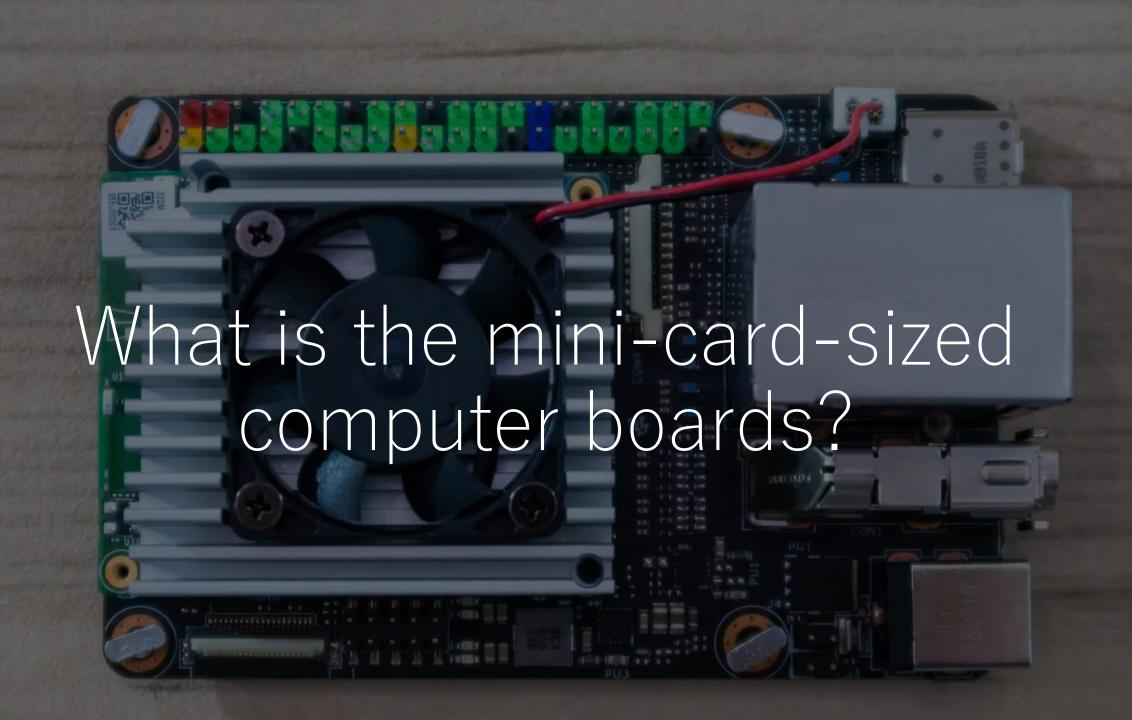
Posts: 251

Joined: Sun Sep 09, 2012 10:07 am

Location: Tokyo





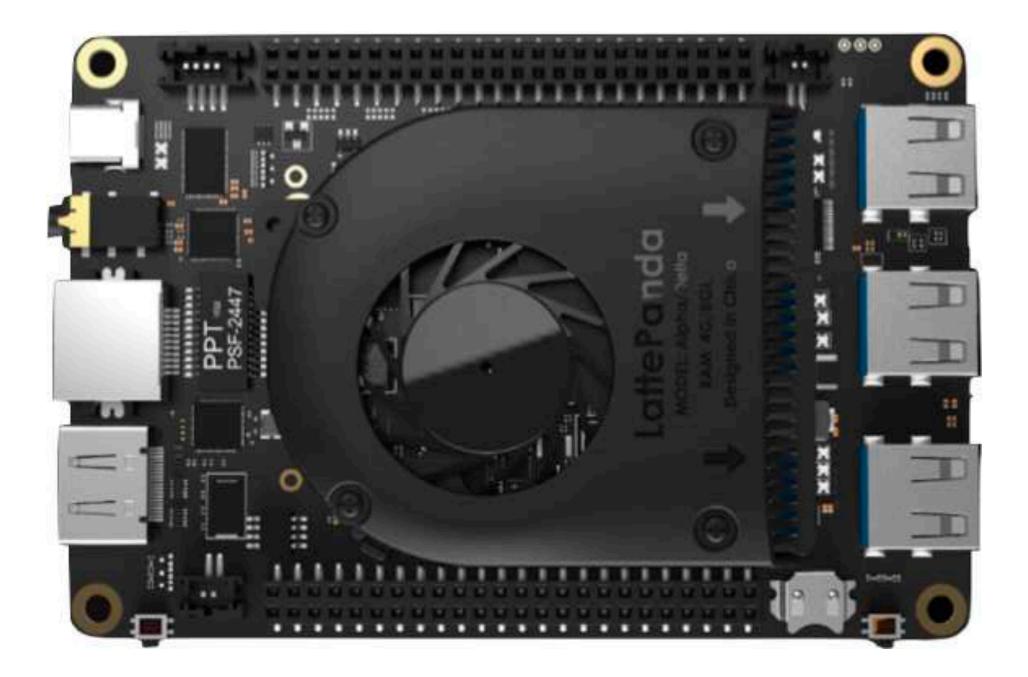


85mm (3.35inch)













What is mini-card-sized computer?

- Small factor like name-card-size
 - Raspberry Pi 3B+ is the standard name-card-sized factor
- Bared and embed
 - Easy to access hardware stuff and useful for DIY and IoT
- Cheap
 - Raspberry Pi Zero (W/WH) is very cheap, it is 5-15US\$
- Run full OS
 - Run full-distribution OS like x64 PC (Linux, BSD, hopefully run Windows10)

Why mini-card-sized computer?

- PC is the office and internet surfing tool and expensive.
 - PC works friendly with MS Office and net surfing apps
 - It is too complex to know/hack the whole of things on PC
- SoC are getting smaller, faster and cheaper rapidly
 - Smartphones are enough to use internet surfing in daily life.
- Raspberry Pi has opened the door to expand computer use.
 - It can be useful to learn not only software but also hardware.
 - It can change dynamically smaller embedded runs on full distro OS.

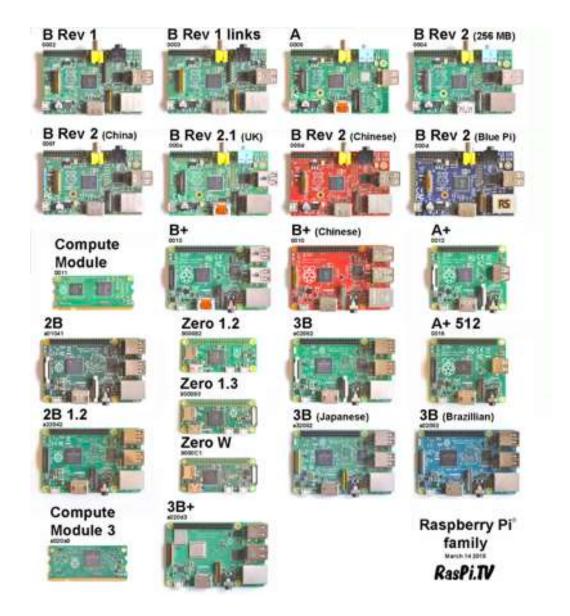


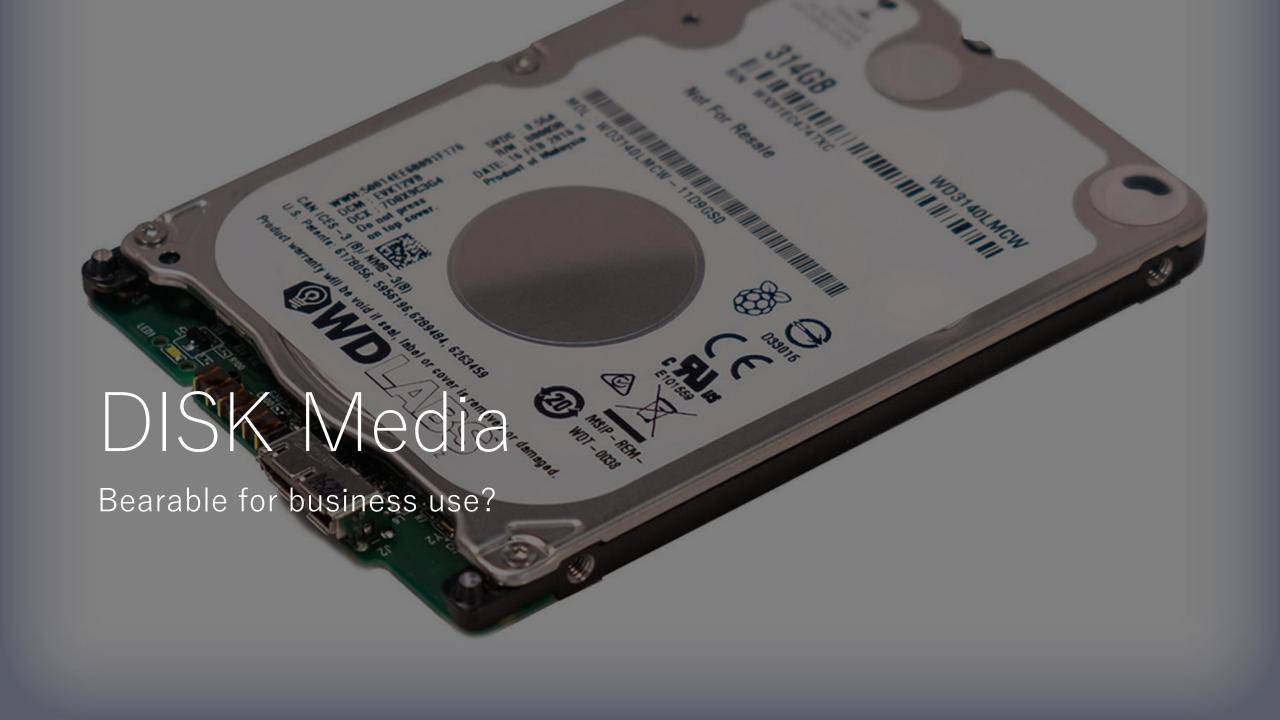
They were for educational use at the first

- They should be ignored the cost, price is very important.
- They should be the same price as textbook
- They should encourage PC newbie use.
- They should be cheap student have a chance to 'break' for their studies.
- 'Forked machines' from China and reduce the TOC chasing each other prices. say 'Raspberry Pi (fake) compatible machine' is in bloom' and it makes less prices

Many more variation

- Raspberry Pi Foundation has been released many more versions of Raspberry Pi
- It is now not only use for education but also many more use - business and more.
- RasPi.tv has corrected many more version of Raspberry Pi pics and blogged on his website. https://raspi.tv/2017/newraspberry-pi-family-photo-28feb-2017





Which disk media is useful...

- SD Card really weak, very nervous electric voltage inputs, less write counts, software issues on Linux
 - https://blog.mythic-beasts.com/wpcontent/uploads/2017/03/raspberry-pi-cloud-final.pdf
- eMMC good, low power consumption, low speed but costs higher than M.2 NVMe SSD.
- USB DISK good, depends on USB controller
- Network boot/PXE manage easily if you run many more PCs but need to consider t he network
- SDIO/SPI depends on use



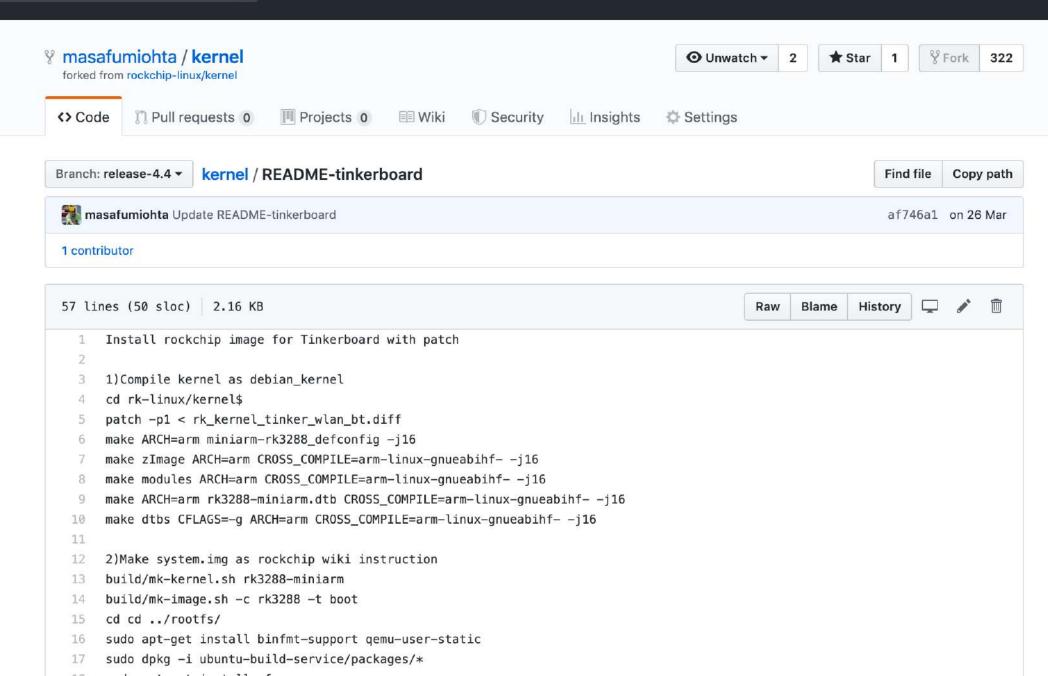
Are they really robust?

- You should check the robust issue before using it.
- Raspberry Pi is supposed children treat it roughly
 - They take it into their bags going back and forth between school and home.
- Some might be 'fried' because of unexpected momentary power.
 - We should know AC Adapter is not always correct in the voltage and Ampere.
 - We should deal 'electric power' on them carefully.



Kernel update is not so easy

- The most basic way to update is 'compiling the latest and change it'
 - we often need to modify the parameters or add the patch to the kernel to compile.
 - Updating u-boot and dtb is different from each other.
 - Check carefully updating rootfs
 - Some boards may NOT fit original kernel see my project 'How to use original Rockchip Kernel on tinkerboard.
- There are the easy way to update the kernel via the tool
 - Raspberry Pi has 'rpi-update' to update the latest kernel. but almost can be done with 'dist-upgrade' to update the fixable kernel.





Operating System

is it easy to handle?

*NIXs are almost fine..

- *NIX systems are almost fine.
 - Ubuntu, Debian, Arc, Yocto is almost fine
 - UI is getting improved, it is useful for *NIX newbies.
 - Raspberry Pi make a great effort to their Raspbian UI so that Children could use with ease.
- Windows...
 - Windows 10 IoT is..rubbish?..lately I have seen Microsoft do some demonstration for Azure with 10 IoT, they use *NIX edge boards..
 - Hopefully Microsoft would make a great effort to port full-Windows 10 to the (ARM) boards..

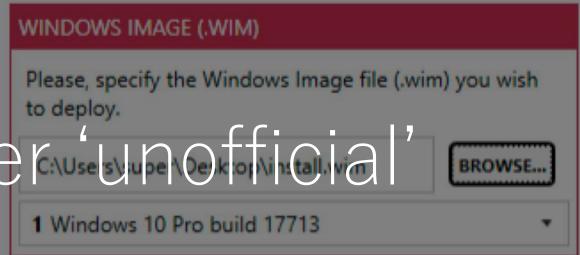




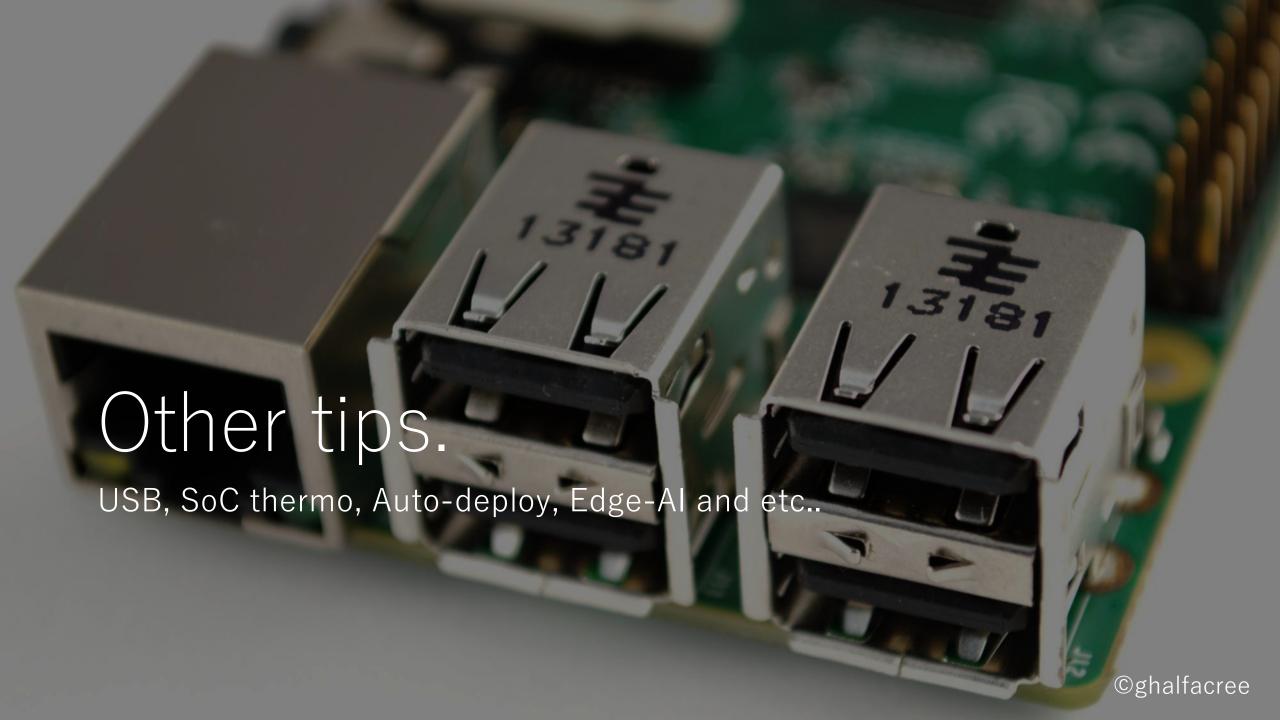
Windows Deployment Advanced

Use this section to install Windows 10 ARM64 into your Raspberry Pi.



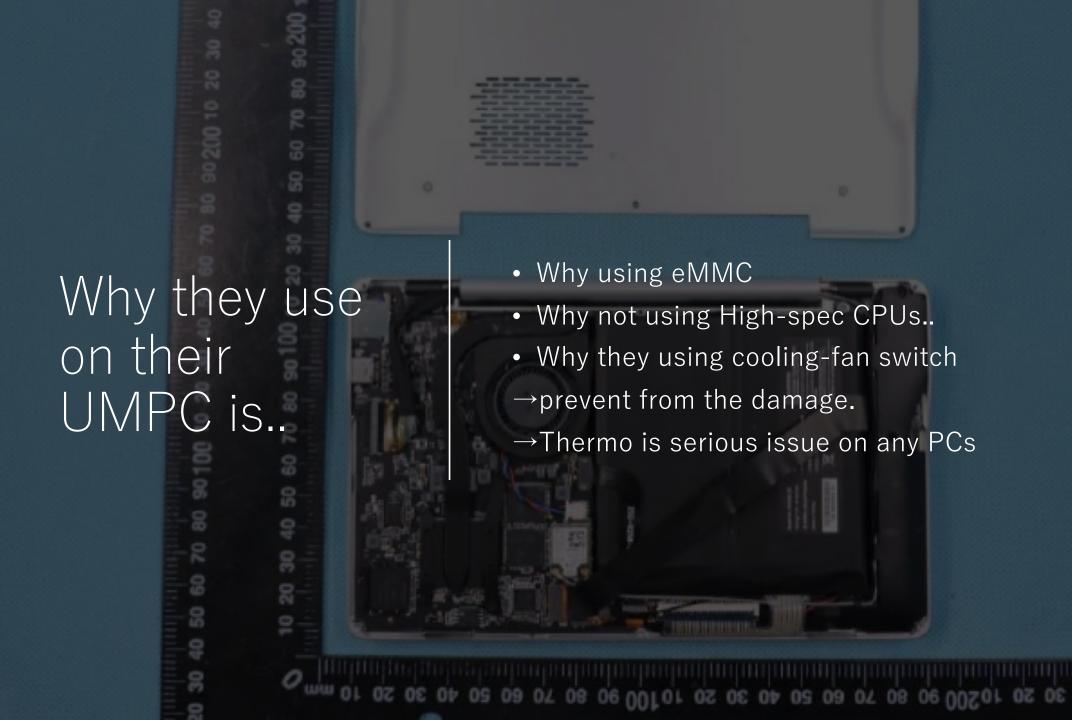






Q&A tips

- Plugging USB to the board it suddenly reboots and cannot boot/reboot again and again/ finish booting..
 - Check your voltage/ampere is enough to work with (seriously)
 - Power regulators on the boards are now improved to prevent such issues.
 - Wifi/BT stuff(dongle, PCIe Cards) eat more ampere.
- Would you recommend heatsink/fan for latest SoC on the boards?
 - Yes, latest A72 or later gets really hot thus recommend heatsink/fan
 - It might be needed liquid cooling immersion in the future...















MAIN

Opportunities, how to use, how to manage



Pivot to industry

- Such boards still sales mostly to 'hobbyists'
 - still mainly sell to DIY makers
- Low-cost, robust, programmable
 - Good for toys, good for industry
 - Good for prototyping use for industry
- First industrial sales for Raspberry Pi mid-2013
 - First-party installations
 - Integration into products
- Volume forces quality
 - No room for error





只今の時刻 15:52

一 企数丘 ゆき for Kikugaoka

先発 1st 15:57

> 次発 2nd 16:07

小倉 ゆき for Kokura

先発 1st 15:57

> 次発 2nd 16:07



























- LASS FT (Field Trial)
- 3. AirBox

- 2. LASS4U
- 4. 87Live



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®I[™]Lab

Curriculum.

Courses required:

- Business Core (70 credits)
 - Accounting
 - Economics
 - Analytics
 - Communication & presentations
 - Law
 - o Organizational Theory & Behavior
 - Operational Management
 - o Finance
 - Marketing
 - Information Technologies
- Public Health Administration (20 credits)
 - o Administration & supervision
 - Process improvement
 - Insurance
 - Policies, standards & regulations
 - Human resource
- Information Technology (20 credits)
 - Networking
 - Database
 - System analysis & design
 - o Information security management

Health information technology

• Internship or cooperative education (5 credits)

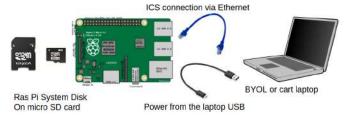
Features:

- AACSB International accredited.
- Goal: IT management in healthcare industries.
- Close relation with local industries.
 - Hospitals
 - Related services (medical images such as Inland Imaging, speech recognition such as NextIT, etc.)

Hands-on materials.

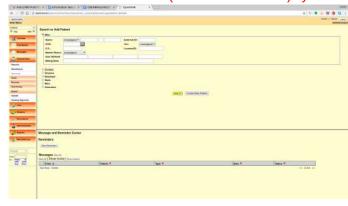
Raspberry Pi -- open source hardware.

- Raspbian OS on Raspberry Pi 3.
 - (Optional) Raspberry Pi zero+USB only.
- Internet Connection Sharing (via direct wiring).
 - (Optional) WiFi AP+an Internet router.
- USB power supply.
- MicroSD as a disk.



OpenEMR -- open source web-based EHR.

- ONC certified complete EHR (2014 edition).
- Easy installation from the Internet -- LAMP.
- Full access to the (actual -- not virtual) system



Students

- install and configure the server.
- generate mock medical records and users.
 - (optional) phpmyadmin

Simulated healthcare practice.

A small group to play a skit.

- Nurse triage (picture below)
- Clark -- scheduling, check-in, etc.
- Billing and accounting
- Lab -- ECG, EEG, using other IoT devices
- Medical imaging (radiology)



AND/OR

A small group to develop a video of expertise in health information technologies (WHIIEC Expert Series).

- Interview
- Panel



