

PNU IN SOUTH KOREA

SAAA

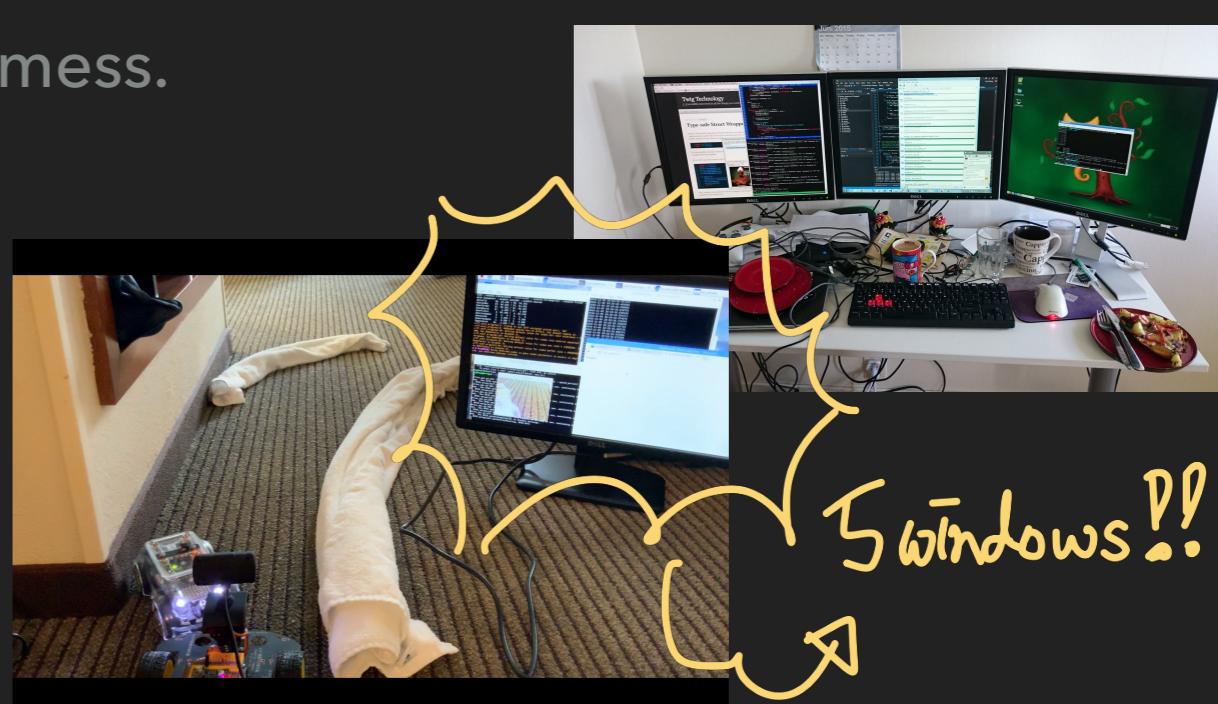
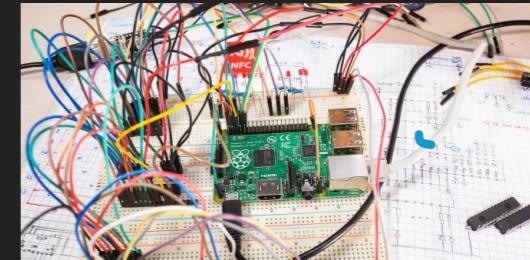
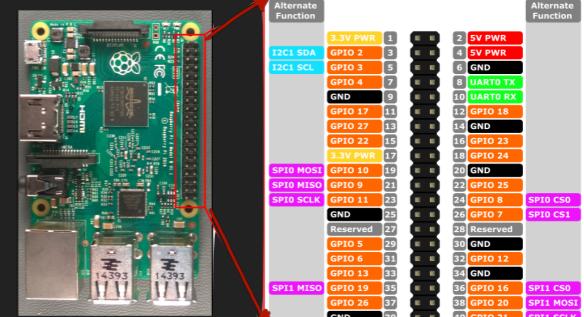
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PROBLEMS

COMPLICATED THINGS

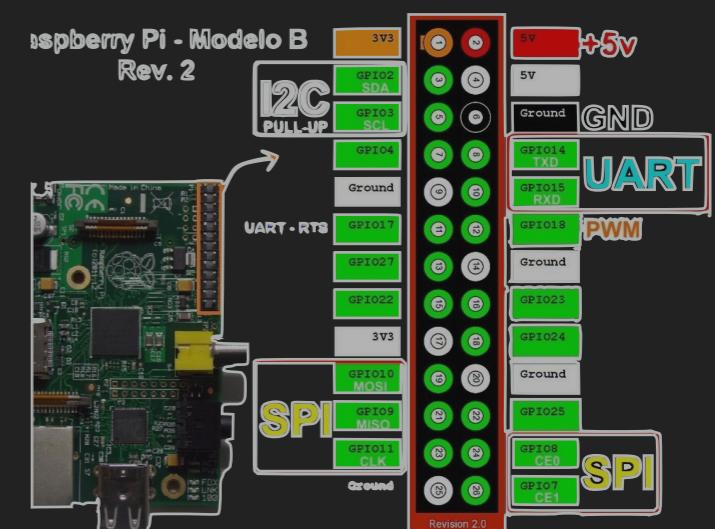
- ▶ The more we need the information, the more we need window on the monitor.
- ▶ Texts on the board are so small to see at once.
- ▶ When you need the text book or want to put something on your desk, it will be mess.



Autonomous Bot Project

WHAT WE SOLVED

- ▶ We removed inconvenience that to see the RPi Pin map or manual.
- ▶ We can get the information simultaneously during connecting wire to the board.

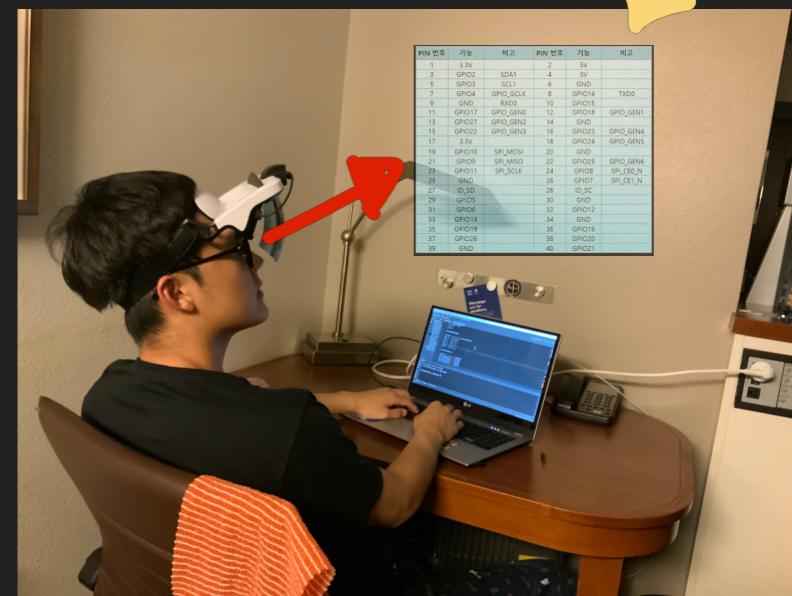


RESULT

BEFORE



AFTER



PIN 번호	기능	비고	PIN 번호	기능	비고
1	3.3V		2	5V	
3	GPIO2	SDA1	4	5V	
5	GPIO2	SCL1	6	SDA2	
7	GPIO4	GPIO_SCU	8	GPIO14	TXD0
9	GND	RxD0	10	GPIO15	
11	GPIO17	GPIO_GND	12	GPIO18	GPIO_GND
13	GPIO27	GPIO_GEN2	14	DND	
15	GPIO22	GPIO_GEN3	16	GPIO21	GPIO_GEN4
17	3.3V		18	GPIO24	GPIO_GND
19	GPIO10	SPI_MOSI	20	GND	
21	GPIO9	SPI_MISO	22	GPIO20	GPIO_GEN1
23	GPIO21	SPI_SCLK	24	GPIO2	SPI_CE1_N
25	GND		26	GPIO7	
27	IO_SD		28	ID_SD	
29	GND		30	GND	
31	GPIO6		32	GPIO12	
33	GPIO13		34	DND	
35	GPIO19		36	GPIO26	
37	GPIO26		38	GPIO20	
39	GND		40	GPIO21	



EXPECTATION

EXPECTATION

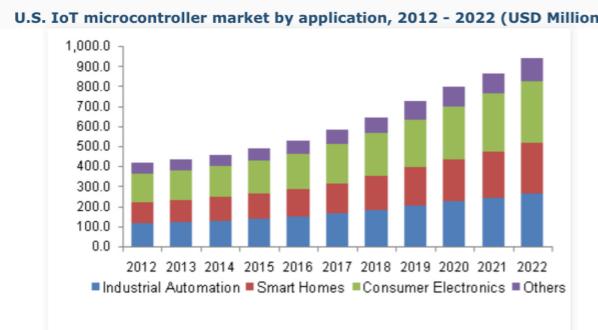
Grand View Research

The business consulting firm Grand View Research offers action-ready market research reports, custom market analysis and consulting services

Wednesday, 27 January 2016

IoT Microcontroller (MCU) Market Share, Size, Growth And Forecasts | 2022

Global IoT MCU market is expected to reach USD 3.56 billion by 2022, according to a new report by Grand View Research, Inc. IoT demands enhanced connectivity in several consumer devices owing to which microcontrollers integrating IoT applications with ultra-low power architecture are targeted. These ultra low power MCUs are primarily designed, to cater wireless devices.



Microcontroller industry is anticipated to benefit with the internet of things expansion over the next seven years. The technology offers opportunities for semiconductor manufacturers, particularly one that suggests companies should begin capitalizing now, while the sector is still developing. Additionally, another key factor associated with IoT MCU growth is how quickly industry participants can address and resolve issues such as inadequate security, meager consumer demand, technology barriers and lack of standards. The technology is here to stay, and is anticipated to help semiconductor industries to maintain or surpass current demand over the next few years.

Forbes

134,642 views | Nov 27, 2016, 1:06 pm

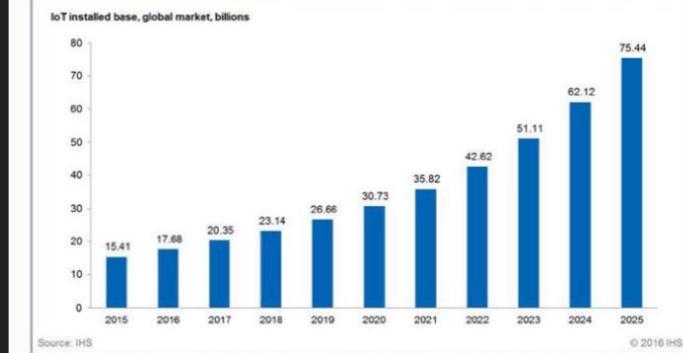
Roundup Of Internet Of Things Forecasts And Market Estimates, 2016

Louis Columbus Contributor ⓘ

Forbes

- Bain could sell com
- IHS forecasts that the IoT market will grow from an installed base of 15.4 billion devices in 2015 to 30.7 billion devices in 2020 and 75.4 billion in 2025. Source: IoT platforms: enabling the Internet of Things, March 2016 (free, opt-in, PDF).

Figure 1. The IoT market will be massive



THANK YOU

INTRODUCING

WHO WE ARE ?

- ▶ We are Pusan National University students from South Korea.
- ▶ We stay in Silicon Valley for a month to see what's going on here.
- ▶ We attended lots of meet ups and also did small projects using raspberry pi.

