

## Research and Exchanging Program at Shibaura Institute of Technology, Japan

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Department: Information Technology

Faculty: School of Information Technology

Host University: Shibaura Institute of Technology, Japan

Program: Research Exchange Program 2019

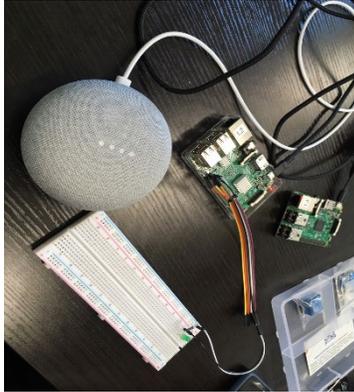
Period: From June 3, 2019 To July 31, 2019 (59 days)

Supervisor: Professor Hiroaki Fukuda (Toyosu campus)



**In the summer 2019.** I was internship at Shibaura Institute of Technology (SIT) University. This program was started on 3<sup>rd</sup> June and ended on 29<sup>th</sup> July. My professor is Fukuda Hiroaki. He is supervisor for 4 students include Ms. Thanatta Opatkajonyos(Jah) or me, Mr. Panakit Paokamol(Golf), Mr. Natthakit Sriyod (Nut) and The last one who decided not join the program. Fukuda-san was assignment to us about making the smart





home or call that IoT. It was a new thing for us to do it because we never do and study that before. First month, we researched information about how to operate this project and tried to implement that. Next month, Fukuda-san bought Google Home Mini and given raspberry pi for us. I had a duty on the part of programming the IoT device for it be communicated between IoT device. It is so hard. I had to researched about discovery protocol and communication protocol, which one was work. Finally, I found it two weeks before presentation day. I implemented code for IoT device in one weeks and last week I integrate Google Home Mini with IoT devices and using the voice command to control the devices. This is my success for 2 months.



**Experience of society and environment in this program.** Before I went to the japan. I found the dormitory and every dormitory have key money and utility fee, which is very expensive and not worth it for me for only 2 months. But I found the Sakura House. It charges only the room fee and the deposit that was returned later. So, I decided to stay in a guest house of Sakura House. It had many people from another nationality. And this guest house taught about separating waste so it can be properly dumped. Even in public, there is also a bin that helps separate the waste. Thus, there was no garbage scattered. This country is very clean. If talking the timeliness of Japanese people. Yes, it





is like that, whether it's a train or a person. They are very punctual. If you late a minute, then misses a train. The first day I went to university and hit the train door clamp.

English skills of Japanese people like Thai people They are not good at English and are shy to talk. But some people want to talk, try to communicate with us a lot One person

in my lab is that he always greets us. And try to communicate with us even if he is not good.

Finally, Almost the Japanese restaurant has free water. I very like it.

