Research Exchange Program at Shibaura Institute of Technology, Japan

Hello, My nickname is Gulf. I am a third-year student at King Mongkut's University of Technology Thonburi. I have been participating in INTERNSHIP IN JAPAN 2019 on the summer semester of 2018 academic year. Here is the detail.

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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)

THE EXPERIENCE DURING THE PROGRAM

The experiences that I gained at Shibaura Institute of Technology (SIT) for the research internship have been astonishing. I was able to experience many things I would not have been able to in Thailand. The lifestyle, the food, the culture and how Japanese works very impressed me. It was a very good time to stay in Japan for 2 months.

CULTURAL AWARENESS and ADAPTABILITY

Japanese culture is very strict and meticulous. Unlike Thai culture, Japanese always doing their jobs smooth and well so everything you experienced in Japan is kind of beautiful thing. Although there were many passengers in a local train during rush hour, the atmosphere is the train still silence.

The view from my office window. Very peaceful and relaxed.

Regarding the environment, there is no food stall on the side of the road so the sidewalk is very clean and smooth. Every single corner of the roads always has trees planted on it.

The sightseeing around the suburb is very charming.   *The downtown is very outstanding too.*

Finally, the Japanese food culture is very amazing. The Japanese restaurant has great service. The food here is very different from Thailand. Most of the Japanese food is made from carbohydrates and served with a side dish like pickles, miso soup, etc. During the meal, I always lift my hand and say "Sumimasen, Omizu kudasai" which means "Excuse me, can I have some water". Then, the staff comes and serves water with a smile. Unfortunately, some Japanese restaurants do not have English menus. Therefore, I must learn some alphabets and kanji like "水" that means "water" and "お酒" which means "sake (alcohol beverage)".
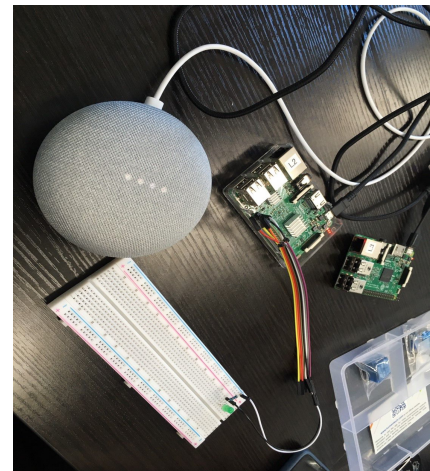

Deep fry tofu ramen

Tender meat ramen

Mapo tofu rice set -- my favorite menu

All set tonkatsu (deep fry meal)

ACTIVITIES IN RESEARCH PROGRAM

I and my friend has chosen a Distributed Software System laboratory as our research project and professor Hiroaki Fukuda as our supervisor. At first, Hiroaki Fukuda assigned us to create a framework that can control the Internet of things. After we researched and focused on the benefits of the voice command. We decide to develop a new public protocol that a normal person can use it to control the smart devices in his/her dormitory even if he/she is not home and with the voice control. Then we called it "Pi and Pi protocol" -- The local communication between Raspberry Pi and Raspberry Pi. Finally, we can control the desire devices by using web applications and mobile applications through our new protocol and a few configurations on the device. Furthermore, we can also control the devices with the voice command by using Google Home Mini. We finally had the succession not only developing the project but also present it with many impressive from the audiences.

My supervisor, professor Fukuda Hiroaki

I am very thankful for all the support from my parents, my friends, the universities included KMUTT and SIT, and all of Japan that made this whole experience very well worth it. I have already succeeded in one of the achievements in my life now.