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# HASSE SPACE SCHOOL

Learning about space in NASA

2018 From 21st.August to 1st.September  
WADA KANTA

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## Introduction

When I was 3 years old, I decided to be an architecture. I have a target which I keep on thinking some things and doing anything for my dream. So, I had been thinking to be it since that time. However, in high school, one thing made my mind moved and changed little by little. It is big for not me but also people of the world. Do you think what it is? You may know, it is "Space". At that time, I thought that it is great idea for me to be the space architecture. Fortunately I found one of project which students go abroad at Facebook after I started thinking about space. It is "HASSE SPACE SCHOOL in NASA". So, I decided to join this project soon.

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# DAY 1 (August.20.2018)

We arrived at Houston in August 20th. And we took a picture as memorial one. We were a bit nervous about something which we would do from that time. For example, how to make friends, how to communicate with foreign people, and what we would do. But, we found that we didn't need to be nervous. Because our assistants are very kind and help us anything, everytime, everywhere. So, we could break ice.



In particular, when we arrived at the hotel which we stay during this project, we had dance time with new friends and introduced ourselves to members. By the way, do you think what I introduced myself? "I have big future! I was thinking about architect and space. When I was high school student, I came up with one thing. It is ..... ♪ I have architect ~~, I have space ~~~...um! Space Architect ♪". At first, I thought that it is a subtle introduction, but they accepted my joke. If there was Japan, nobody laughed at my joke.



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# DAY2 (August.21.2018)



Second day, our project started seriously. We had to dance every morning. DAY2 was no problem about dance, but we thought that we will have gotten bored someday later at that time.

In this program, Chinese members joined in this. So, we met them this day, and they give us a lot of gifts from china.

We went to restaurant which is related with space. There are many picture of astronauts. Then we started to feel space. After, we went to the laboratory where research about rocket engine. Big machine is in there. We were amazed with system. The researchers use atoms in the machine, and they demonstrate which atom is the best for engine. Now, they found that argon would make large energy when it is broken by presser.

After that, we did presentation about our team icon. We made our icon before we went to Houston. So, we had to tell about our patch. Look at this picture on your right, we are presenting about that.



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# DAY3 (August.22.2018)

We went the NASA.It was very sunny day. There are big rocket.this is model of Space shuttle.I was amazing to see this.I thought that we were just in NASA.It was not real world, maybe dream. I have seen Space Shuttle at Space world in Fukuoka. But this one which is in NASA is different from shuttle in Fukuoka.



There is big.Vice versa, we notice our minds is too small. Our dream must be big.



This picture is real capsule of Apollo 17. As I think this capsule came back to the earth from space and moon, I couldn't stop feeling it is so mysterious.Even now, when I watch this picture, I become such feeling.So, this is one of my favorite photos .

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# DAY 4 (August.23.2018)

We went to NASA in also DAY2. We took a tour there, and NASA's staffs gave me VIP card. This card means that we can enter in secret place. Then we went to old mission control center. There is mysterious,I felt. Because there are the room where they used when Apollo mission conducted. We felt time slip. This room was have never been changed because there is important for NASA's history. The only ceiling was replace to new one. All of staffs were always smoking in this room during the mission of Apollo. So, ceiling became black.This is the reason why that was renewed. However, from now, this room will be changed and renewal. Maybe they're going to use for new project.



After that , we had a lecture by an engineer. His name is .He is NASA's engineer. All story which he talked is so interesting. For example, Ion engine is stronger than oil....ect. His lecture was too enjoyable to sleep. Look at the picture on your down.I took this picture. It is one of my important pictures.



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# DAY5 (August.24.2018)



We went to the factory to make 3D model. In this day, we made the design of rover. Those rover model was made to sent those moon like X-prize. Do you know X-prize? This is one of space project. Few years ago, Google held this prize. In add, Japanese team(HUKUTO) also joined in this race. However, this project was failed. The country of India caused to be not able to do. Indian company couldn't launch.

Then we tried to join in this race as Japanese team again. And we took race with HASEE member. End of that, we took presentation to NASA's engineers. But it is main theme, so I'm going to talk about this later.



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# DAY 6 (August.25.2018)

In the morning, we took second lecture by NASA's engineer. This is about construction of rocket. That is bit difficult for me, but I wanted to understand only one thing, so I ask question to her. My English must have be bad and mistaken grammar. However she seriously listened my question. She made answer for me, but I couldn't understand well. At that time, I felt that I must study more. In additional, I could feel happiness I can tell my message to foreign people.

After that, we went to the museum which has a lot of things about science. So, we could learn not space but also structure of underground. And, we tried demo MCC(mission control center). We talked many things to success our project which we went to Moon and Mars. It need helpful for each other. I made a pair with my HSS(hasse space school) member. Our pair assumed one of important role. It is medical role. I had to care of other members. This mission was difficult but I could feel MMC surroundings.



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# DAY7 (August.26.2028)

I went to the church which is the biggest in USA for learning also religion. The name is Lakewood church. I had thought that Christians went to church on Sunday, and pray to the god. However, it is not true. Please look at the picture under. We were amazed because it is too different from our image.



There is a big stage, screen, and a lot of seats. We watched a concert there. At that time, I thought Christians went to the church to enjoy with their believers and God. It is good culture. I want to recommend Japanese the party like Christian's assembly.



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# DAY8 (August.27.2018)

We went to the laboratory in NASA, and we started to make a rocket. At first, I thought this rocket is just model, but it was actual! We used explosives as engine. However, we had to chose even what we use and how we make. Engineers taught us a lot times. We start understanding how we must do little by little. This picture was taken before start making. When we spend 1 hours to make, we had already been tired, but it was so interesting for me who like space very much.

Then, we could make great rocket earlier than other teams, we planed to launch this rocket and race which rocket go up highest in DAY 9.



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# DAY9 (August.28.2018)

We went to the common(public place like park), and we prepared for launching our rocket. After race, our conclusion is the least significant. We were too regrettable to move. I knew the most important things is prudence, speed is also important but we needed to do something as NASA's engineer.

After that, we started next mission. It was making module to live in the Mars. I was so excited because I major in architect in university. So, I suggested my idea to my teammate. This idea is that making module under ground. The reason is that it always happen sandstorm many times three, So if we make it under ground, astronaut can avoid that. Our team agreed with me, but it was hard for us to appear the module in ground. We decided to make it on the paper as here is under ground.

This picture is taken during our presentation to engineers. They accepted our idea and admire us. I was so happy.





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# DAY10 (August.29.2018)

We went to the laboratory in NASA again, and we started to make a rover. We made it with thinking that it become useful to search in the Mars. However, it was little hard for me to produce it. Because we had to make ideas for programing, so the rover must work by itself in the Mars. Our team though hard and ask questions how it make to NASA's engineers. They always help us, and they are so kind for everyone. Because of them, we could continued on making it without give up.



In this evening, we went to the one hotel, and listened presentation by Leroy Chiao. His story was about his experiment in space. True story in space is so interesting. And I can feel I can go to space. His presentation made me to want to join NASA project more.

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# DAY11 (August.30.2018)



I went to pool to scuba diving and robot race. The picture is when we made robot and race on water. It was a little difficult to control but it was so fun. There are boll robot which can move anywhere. We put something on this robot and run on water. Because the robot can't stay on water, we

should have used something to make it kept on staying there.

Our team member is 3 people, including me. We are the rightist on this picture. I was holding controller and operating. Robot needed to go to the center line at the pool and go back. There are water wave, so controlling is difficult. Every team screamed to their robot. Finally, we lost this race but we could enjoy.



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# DAY12 (August.31.2018)

We had prepared for last presentation about X-prize. I wasn't nervous to do presentation because we cooperate with each other. I had big confident to success it. However, I don't have confident to speak English, so I used gesture, such as using picture, using my hand, and using paper. Then, we finally get first prize in X-prize!! I was so excited.



How happy this is!! I got gold medal.

The experience is so important in my life. I could talk with NASA's engineers and evaluated my presentation. It will be good skills for me in the future.





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## Conclusion

HASSE SPACE SCHOOL was done at this day. I was so sad. I could learn a lot of things. I will back there after becoming NASA's worker. I hope to come back here. My next stage is Russia.





*Space Center Houston*

*Hereby presents*

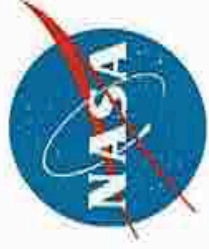
KANTA WADA

*A Certificate of Completion for Space University*

*August 31, 2018*

*Rachael Stephenson*

Rachael Stephenson  
Space Center University Coordinator



**HASSE**  
Houston Association for Space and Science Education

Certificate of Completion

*This confirms*

★ **WADA KANTA** ★

*has successfully participated in the*  
**HASSE SPACE SCHOOL**

*From August 20<sup>th</sup> to September 02<sup>nd</sup>, 2018*

  
James Liu  
Executive Director & CEO

  
Dr. Leroy Chiao  
Special Adviser & Former Astronaut

  
Board of Advisors

**iVicon**