Group 2 Oral Presentation Script

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Slide 2(Topic)

The process of creating the fastest hovercraft and the most beautiful controllers.

Slide 3(Team Member Introduction)

Chen
Student number: 40118790

DesignSpark 3D Printed Design
Arduino coding
Coding the Thunkable Block

Daniel Kucera
Student number: 40119030
DesignSpark 3D Printed Design
Arduino coding
Final Announcement of Oral Presentation

John(LEE JeongHyun)
Student number: 40119318
DesignSpark 3D Printed Design
Designing a Thunkable Application
Produce Oral Presentation Using Prezi

Slide 4(Training / Workshop 1)

- 3D Printng

1. I used the DesignSpark Mechanical 2.0 program to familiarize myself with the features while watching the YouTube lecture.
2. Finally, we created a 3D printed product for our group's hovercraft.
3. Our group member Chen made a character of Minecraft, Creeper, and Daniel made Pikachu Pokemon, I made a name tag of "EEE4990."

Slide 5(Training / Workshop 2)

- Basic Hardware Design and Programming

1. Constructed using hovercraft parts.
2. The design drawings in the "Hardware Component" textbook leave several components in the correct position, including registers, on the PCB board.
3. I asked the professor to test our PCB board for normal operation.
4. Our hovercraft worked normally. The propeller also worked normally.

Slide 6(Training / Workshop 3)

- Basic App Programming for Bluetooth Motion Control

1. The Bluetooth module board was connected to the computer and the code was written to ensure normal operation in the aduino program.
2. Entering commands such as blinking LEDs, finding MAC addresses, and renaming, it was confirmed that the module was operating normally.
3. Using the "Serial Bluetooth Terminal" application, I entered a command to test it.

Slide 7(Training / Workshop 4)

- Basic App Programming for Bluetooth Motion Control

1. Using "MIT App Inventor," we created a hovercraft controller with a rudder key.

2. "MIT App Inventor" did not support Bluetooth functionality when extracted as an application.
3. "Thunkable for android" has come up with the same design again, with Bluetooth features.
4. I did block coding to give each button a numerical command to make the codes I did at Arduino work at Thunkable.

Slide 8(Visits / Guest talks 1)

- HKSTP Company Visits
1. We made a crane out of Lego and experimented with how much weight we could bear.
2. After making a Lego crane, using a block-type program similar to a scratch, the crane gave various commands, including a 90-degree turn and a spin three seconds later.
3. When running the program, the crane lifted its weight upward and stopped moving when it sensed that it reached the top of the extra weight with a sensor.
4. I was told about a number of inventions invented by HKSP, including mosquito-resistant fiber-flexing agents and intelligent cane.

Slide 9(Visits / Guest talks 2)

- KEF Music Gallery Visits
1. We looked at various instruments and sound instruments. The interior was very luxurious and the sound quality of the sound system was good, so I could have a new experience.
2. The person in charge of the gallery explained how the sound device works and the parts that go into it.
3. I also had time to listen to three-dimensional music to take advantage of this principle.

Slide 10(Visits / Guest talks 3)

- Start-up Business in Hong Kong
  Machine learning of the company, artificial intelligence, who runs Mr.Joe wong vr, with the image a product is ar to explain. Is how it works and products that have been applied. The technologies are used to tell me.
- Healthcare challenge in the new Electronic Digital Age
  Dr. Daniel K. Lau explained why all majors should know about healthcare.

Slide 11(Visits / Guest talks 4)

- LSCM Company Visits

1. I watched a video clip introducing business and services conducted by LSCM. Typically, there was a logistics management system.
2. I saw a robot that can move the shelf efficiently and shorten the time.
3. I also saw an RFID sticker machine used to check luggage at the airport.
4. I also experienced a machine that uses a hair band to read a person's thoughts and move an object to a desired location.

Slide 12(Local Tour / Free Time)

- Tung Chung

1. I went to Tung Chung by NP 360 Cable Car. The scenery was beautiful.
2. I saw Po Lin Monstery and Big Budha. I could feel the grandeur of nature.
3. Moving from Ngong Ping to Tai O Village. I got on a boat where I could see dolphins.

- Soccer

On the 25th of July, after the afternoon class, all the students got together and played soccer together.

Slide 13(Conclusion)

- Summarise your main points

1. We all screamed and liked when hovercraft worked with an app we made using thunkable.
2. Chen programmed, and Daniel asked his friends for help. John made the presentation material.
3. We all think our group is the one who has performed their roles best. Through this class, I was able to develop teamwork.

Slide 14(Q&A)

If you have any questions about our presentation, please ask us questions.