

*Group number: DEC1707*

*Project title: Electromagnetic Train*

*Client &/Advisor: Professor Song Jimming*

*Team Members/Role:*

- 1. Yap Yong Sheng (Team Leader)*
  - 2. Norfarahin Nordin (Communication Leader)*
  - 3. Chung Sheng Su (Webmaster)*
  - 4. Shi Xiang Lim, Larry (Concept Key Holder 1)*
  - 5. Mustafa Hafez(Concept Key Holder 2)*
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○ **Weekly Summary**

Throughout this week, we focused on developing a mini model to demonstrate the basic principle of the electromagnetic train. We have received the magnet coil earlier this week followed by the magnet sets. On the other side, we also try to update the website that is provided for our group.

• **Past week accomplishments**

In this part, every group member describe specifically on what they contribute for the project progression:

***Yong Shen***

This week, I went to the meeting with my group members to discuss the future plans of our project with Professor Song. The future plan is we have to build the actual track after the Spring Break. On Thursday evening, Larry and I were building the demo of the project and the demo works perfectly. We were having some difficulty when we were building the track from the 18 AWG cooper wire. But now we have some idea how we are going to build the

actual track for our project. On Friday, I collected the recharger batteries and the chargers from Lee and I passed them to Professor Song.

**Larry Lim**

- Finished a model for the project
- Thought about how to make the model easier to make.

**Chung Sheng Su**

This week I tried to create the website but still could not manage to do so, as I could not manage to map the files sent by ETG.

**Mustafa Hafez**

Basically I researched the physics behind how Maglev trains work. ( I didn't research any formulas, just looked for the concepts as to how they work).

**Norfarahin Nordin**

Throughout this week, I focused on researching about how to improve the performance of the mini model that we created.

○ **Pending issues**

Currently, all the members are trying to improve the performance of the mini model electromagnetic train by manipulating the coil gap distance and the number of turns.

○ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Yong Shen	Worked on the mini model development.	4	21
Farah Nordin	Worked on the mini model development.	3	20
Larry Lim	Worked on the mini model development.	4	21
Chung Sheng	Worked on the mini model development.	3	17
Mustafa Hafez	Worked on the mini model development.	3	17

○ **Comments and extended discussion**

The project is currently in the starting phase of the parameter manipulation phase. Once the aspects for the performance improvement are determined, a bigger model will be built.

○ **Plan for coming week (please describe as what, who, when)**

Demonstrate and improve the performance of the test.

- **Summary of weekly advisor meeting**

Build up the mini model and test the parameters of the coil.