

# **EE 491 WEEKLY REPORT 1**

## **Project title: Positional Tracking with Optical Fiber**

Group number: DEC1622  
Group email: dec1622@iastate.edu  
Client &/Advisor: Honeywell / Dr. Jaeyoun Kim  
Date: 25th January 2015

Team Leader: Wei Shen Theh  
Team Webmaster: Wing Yi Lwe  
Team Communication Leaders: Jia Yu Hong  
Key Concept Holder: Aqila-Sarah Zulkifli

## Weekly Summary

As this is Week 1, we are more focused on the finalizing the group and picking a project instead of focusing on the project itself. This group is formed at the last minute because the members decided their original group was too large to play any significant role and would prefer the challenge of working in a smaller group. Since this is the last group formed, we do not have much project selection. After a brief discussion, we decided to meet with the advisor of two interested projects. Professor Kim Jaeyoun was very helpful and he helped us analyzed the two projects and gave us his thoughts and recommendations. Based on those comments, we decided to go with Project 12 (Position Tracking with Optical Fiber). After the project selection and members' information had been forwarded to Professor Mani Mina, the group then decide on a day (1/25/16 Monday) to meet up. It was not the most ideal choice as the first weekly report is due at the end of the day but the group was formed in a rush and our schedules don't match well during the latter of the week. During the meeting, each member's position and responsibility is decided and work on the weekly report is started immediately.

During the week, members also tried to spend some time thinking about the project based on some of the ideas provided by Professor Kim. The designs had yet to be finalize and we will have to consult Professor Kim regarding the suitability of the design for the project.

## Past week accomplishments

Since we just decided on our project, our milestones were limited. However, our main accomplishment was meeting Professor Kim Jaeyoun that helped us analyse the project and discussed the possibilities of solving it. In addition, Wei Shen mentioned he has an idea about the project, which we would have further discussion on coming weeks.

## Pending issues

Firstly, although we met Professor Kim Jaeyoun, and decided our project, we did not set up weekly meeting times with our professor yet. We are going to send him email and schedule our meeting times. Secondly, we decided our project slightly later than other groups, so we have not contacted the company to consult more details about the project.

## Individual contributions

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Wei Shen Theh	Emailed professors for conformations on projects	2	2
Wing Yi Lwe	Created a discussion group online easily accessible for all members	2	2
Jia Yu Hong	Made sure members contributed on the weekly report and submitted the report	2	2
Aqila-Sarah Zulkifli	Created a doodle poll to set up the meeting time that works the best for everyone	2	2

## Comments and extended discussion

None of members took optical class before, so we will require more research to better understand concepts and come up with practical solutions that fit the project description.

## Plan for coming week

For next week, we have decided to have group meeting on Monday at 3PM. We will start doing general research related to our project and allocate specific tasks for each other.

## Summary of weekly advisor meeting

Our first meeting with Professor Kim Jaeyoun was to ask him to advise us on a project to pick between two optic system based projects that were both submitted by Honeywell. He advised us to pick this project, DEC1622, because it had a better prospect in achieving its goal. By just reading the description of the project abstract, Dr Kim has already gave us an overall idea in what the company might want as an end product. He personally agreed to be our advisor in exchange for a promise that we dedicate our time and effort for this project.