

EE 491 Weekly Report

MAY15-29 Week 13 (11/24/14-11/30/14)

Advisors: Meng Lu

Client:

Members (roles): Wenbing Ma (coding) , Jiangxiang Zhang, Xuan Zhang (Webmaster) , Zhikai Cui (Leader), Chenyin Liu(sample holder design)

Project Title: A high resolution two-dimensional ultrasonic detector using plasmonic crystals

Weekly Summary: Members did well job in the past week.

Meeting notes:

11/29 Group Meeting with Advisor

Duration: *60min*

Members Present: *All*

Purpose and Goals:

1. Get the result of testing
2. check the wavelength of result is what we want
3. Reaffirm that the process for the result have no problem.

Achievements:

1. Finally, we get the DAQ in right model;
2. The whole optical setup for the project is complete.

Pending issues

1. Computer can not recognize the DAQ.

Plans for next week

Wenbing Ma & Zhikai Cui

- Write code to enable motorized stage to function in snake routine.
- Debug the code for data acquisition to get, save and plot the data
- Debug the code for motorized stage and synchronize it with DAQ

Jiangxiang Zhang

- Make adjustments for the optical setup
- Get the testing results, including both the waveform of laser diode and acoustic signal

Xuan Zhang & Chenyin Liu

- Help other members to simulate the result under programming
- Develop the website
- Prepare the presentation, PPT will be done.
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Individual Contributions (this week)

- Wenbing Ma attended the meeting(1hr), Debug the code for data acquisition to get, save and plot the data(13hr)
- Jingxiang Zhang attended the meeting(1hr),finished the optical setup(8 hrs). Test spectrum of acoustic scope.(1 hrs)
- Xuan Zhang attended the meeting.(1hr) , finished the optical setup(8 hrs). Test spectrum of acoustic scope.(1 hrs)
- Chenyin Liu attended the meeting.(1hr), finished the optical setup(8 hrs). Test spectrum of acoustic scope.(1 hrs)
- Zhikai Cui attended the meeting.(1hr), finish the code writing for motorized stage(5hr). Debug the code for data acquisition (5hr)

Total contributions for the project

Wenbing Ma (14 hr)

Jingxiang Zhang (10hr)

Xuan Zhang (10hr)

Zhikai Cui (10hr)

Chenyin Liu (13hr)

