

Senior Design 491 Weekly Report 3

Date : 9/29/2017

Project title : Patch-clamp microchip testing circuit interface

Client & advisor : Que Long

Team member & Roles :

---- Chenhang Xu - team communication leader

---- Daiyuan Ding - team webmaster

---- Li Qian - team leader & time keeper

---- Junhua Hu - Team designer

---- Ningyuan Zhang - team programmer

---- Yigao Li - team test leader

Weekly summary :

Research the material about project.

Draft the project plan and set up the project website.

Do research on how to do the first step of set up.

Past Week Accomplishments

| Member name | Accomplishments |
|----------------|--|
| Chenhang Xu | Contact Dr. Long Learn how to use the equipment in the lab |
| Daiyuan Ding | Website,files uploading,read the manuals and learn how to use the equipments. |
| Li Qian | Draft project plan |
| Junhua Hu | Not pretty familiar with design circuit |
| Ningyuan Zhang | Read relative wiki, document and possible implement and approaches from internet |
| Yigao Li | deep understand of the manual |

Pending issues

| Member name | Accomplishments |
|----------------|--|
| Chenhang Xu | Do research on how to do the first step of set up |
| Daiyuan Ding | Need more information about how to set up the lab equipments. |
| Li Qian | Gather information and research |
| Junhua Hu | N/A |
| Ningyuan Zhang | Need to know more details according to the documents and articles. |
| Yigao Li | N/A |

Individual contribute

| Name | Individual Contributions | Hours this week | Hours Cumulative |
|--------------|---|-----------------|------------------|
| Chenhang Xu | Regular meeting with group member and professor. Read the document to know how to do the first set up capacitance compensation | 3 | 3 |
| Daiyuan Ding | Meet with advisor and learn how to use the equipments. Update the Website.. | 3 | 3 |
| Li Qian | Read documents and corresponding background knowledge about patch-clamp. | 3 | 6 |
| Junhua Hu | Read the document and | 3 | 6 |

| | | | |
|----------------|---|---|---|
| | do research. Website setup and upload the first document. | | |
| Ningyuan Zhang | Get the first look of how a patch clamp circuit looks like and how are the possible ways to implement it. | 3 | 3 |
| Yigao Li | First group meeting with professor. Meet the graduate student to know the basic knowledge of patch clamp circuit. | 3 | 3 |

Comments and Extended Discussion

Get more documents by doing research.

Plan for Coming Week

Improve our circuit design

Meet with assistants and graduate students assigned to us.

Doing some research related to the project

Prepared for the first step of set up

Summary of Weekly Advisor Meeting

Regular meeting with professor. Professor told us the basic function of the patch-clamp testing circuit.

And help us working on our circuit design. Let us enter the lab to familiar with the lab environment.