***EE 491 WEEKLY REPORT 6 Date: 10/9/16 - 10/16/16***

***Group number: MAY1740***

***Project title: Magnetic Pulse Generator***

***Client &/Advisor: Dr. Mani Mina and Neelam Prabhu-Guankar***

***Team Members/Role: Jack Lamar, Qibai Zheng, Pengchao Lian, and Ran Ma***

* **Weekly Summary (Short summary about what you did this week)**

In this week, we did our project plan version 1. Everyone did their own parts well. We also simulated some circuits on Multisim to learn more about this project and decide what should we do as our next step. In addition, we met with Jiayu and she helped us to understand this project deeper.

* **Past week accomplishments (please describe as what was done, by whom, when)**
* Jack Lamar: Wrote introduction and timeline sections of project plan v1.0, simulated RL MOSFET circuit to learn how the concepts and operation to the overall generator circuit, met with Jaiyu to get direction and advice on moving forward.
* Pengchao Lian: Wrote the design part in project plan, simulated RL MOSFET circuit and know that what is the time delay means.
* Ran Ma: Finished senior design website version 1. Upload weekly reports to the website. Read about how to import a SPICE model to Multisim from NI’s official site.
* Qibai Zheng: Wrote Project requirement and specification of project plan v1.0. And simulated RL MOSFET circuit with team to learn the charge time of inductor.
* **Pending issues (if applicable)**
* Jack Lamar:
* Pengchao Lian: the question about how to get the correct graph when we simulate for the circuit which previous group did.
* Ran Ma: Some questions about the future work.
* Qibai Zheng: Question about why the output is incorrect with the RL cirucit
* **Individual contributions**

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| **NAME** | **Individual Contributions** | **Hours this week** | **HOURS**  **cumulative** |
| Jack Lamar | Simulation and project plan work | 8 | 24 |
| Pengchao Lian | Project plan and Simulation | 6 | 22 |
| Ran Ma | Project plan work and website building. | 6 | 21 |
| Qibai Zheng | Simulation and Project Plan | 6 | 20 |

* **Comments and extended discussion**
* **Plan for coming week (please describe as what, who, when)**
* Jack Lamar: Begin design document v1.0 and play with circuit design parameters
* Pengchao Lian: read the previous group plan and find out the graph what should we got.
* Ran Ma: Working on the Project Plan and importing the model. Upload more project information to the website.
* Qibai Zheng: review the previous group’s work and understand how the circuit work
* **Summary of weekly advisor meeting (if applicable/optional)**