*EE 491 WEEKLY REPORT 5 Date: 10/2/16 - 10/9/16*

*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 simulated bias circuit with resistor and inductor in Multisim by using the pulse input. We try to find the difference between if we use inductor and resistor. And we have some problems after we simulated. We still confused with importing a MOSFET file into Multisim or PSpice. In addition, we started our website design, webmaster learned a lot of how to design our website.

* Past week accomplishments (please describe as what was done, by whom, when)
* Jack Lamar: Simulated multisim NMOS circuit with inductive and resistive loads. Observed the behavior of the drain and gate voltages. Began writing project plan.
* Pengchao Lian: Simulated multisim NMOS circuit with inductive and resistive loads and analyze the output graph; review how to calculate the each point voltage on the MOSFET; have some question about what we did in simulation.
* Ran Ma: Simulation with pulse input with resistor and inductor at the drain. Learning about website designing html coding.
* Qibai Zheng: simulated with pulse input and biased with resistor and inductor. Found materials that what should get if bias an inductor. Have problem about if change the pulse width, the voltage output will be changed.
* Pending issues (if applicable)
* Jack Lamar: Questions about inductive load behavior
* Pengchao Lian: Some question about the output graph
* Ran Ma: Learned on HTML, practicing website building. Did inductor biasing.
* Qibai Zheng: ask Neelam the questions, and try to figure out what should it be when bias an inductor.
* Individual contributions

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| NAME | Individual Contributions | Hours this week | HOURScumulative |
| Jack Lamar | Simulation and project plan | 4 | 14 |
| Pengchao Lian | Simulation and read more material | 4 | 15 |
| Ran Ma | Simulation and learn about html | 4 | 15 |
| Qibai Zheng | Simulated with pulse input for inductor and found materials for bias an inductor. | 4 | 14 |

* Comments and extended discussion
* Plan for coming week (please describe as what, who, when)
* Jack Lamar: Finish project plan and move forward with design simulation
* Pengchao Lian: Understand how to get the exact value of voltage in each node and learn more about MOSFET.
* Ran Ma: Finish the website designing and building.
* Qibai Zheng: understand more about the project and ask questions
* Summary of weekly advisor meeting (if applicable/optional)