

EE 491 Weekly Report DEC15-17 Week 18 (9/22/15-9/28/15)

Advisors: Dr. Ravi Hadimani and Neelam Prahbu **Client:** Iowa State University

Members (roles): Marion Okoth (Team Leader), Elizabeth Clarkin (Website) and Matthew Mulloy (Weekly Reports)

Project Title: Magnetic Sensor Design.

Weekly Summary

The main goals this week was for each member to put in work for the project. Also, we continued ADS (Advanced Design Systems) evaluation.

Meeting notes:

9/28 Group Meeting with Advisors

Duration: 60 min **Members Present:** All

Purpose and Goals:

This week's goal was to plan goals for the next few weeks and evaluate time constraints for possible future work.

- Planning for week 9
 - HFSS and ADS
 - All simulations completed
- Matthew
 - COMSOL magnetic field
 - Current setup simulation with materials
 - Optimal design simulation with materials
- Marion
 - SA70 and ISU ferrite epoxy measurements done
 - FI55 will be in by week 9
 - ADS
- Elizabeth
 - Software continuation
 - Finalizing frequency spectrum peak shift
 - Signal frequency impedance matching

Pending issues

1. Semester documents
2. Semester goals

Individual Contributions (this week)

Matthew Mulloy: Attended the meeting, COMSOL simulation, weekly report (4 hrs.)

Elizabeth Clarkin: Attended the meeting, ADS (2 hrs.)

Marion Okoth: Attended meeting, ADS (1.5 hrs.)

Total contributions this semester

Matthew Mulloy (17 hrs.)

Elizabeth Clarkin (14 hrs.)

Marion Okoth (13 hrs.)

Total contributions for the project

Matthew Mulloy (124.5 hrs.)

Elizabeth Clarkin (147 hrs.)

Marion Okoth (103.5 hrs.)