

EE 491 Weekly Report DEC15-17 Week 14 (8/24/15-8/31/15)

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 to meet up again, discuss individual team roles, discuss any progress made during the summer, plan expectations and goals, and recruit new members if possible.

Meeting notes:

8/31 Group Meeting with Advisors

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

Purpose and Goals:

Meet again after summer

- Discussion of Marion's work over the summer
 - Measurements of materials PF55 and SA70
 - Noise reduction in simulations
 - Removal of 2 common resonances
 - Not from samples and common to all measurements
 - Source unknown
- Roles for semester
- Timelines
- Schedules and coordination
- Usefulness and viability of adding another member
- Simulations
 - 3D circuit simulation
 - Refined permanent magnet simulation with updated materials
- Updated experiment demonstration
- Impedance matching circuit for the testing set up

Pending issues

1. Semester documents
2. Semester goals

Individual Contributions (this week)

Matthew Mulloy: Attended the meeting, attended class, semester organization
(2 hrs.)

Elizabeth Clarkin: Attended the meeting, attended class, semester organization
(2 hrs.)

Marion Okoth: Attended meeting, attended class, semester organization
(2 hrs.)

Total contributions for the project

Matthew Mulloy (109.5 hrs.)

Elizabeth Clarkin (133 hrs.)

Marion Okoth (92.5 hrs.)