

# EE 491 Weekly Report DEC15-17 Week 23 (10/27/15-11/2/15)

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**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.**

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## Weekly Summary

The main goals this week were to order and prepare materials for design construction, simulate, and begin preparations for group demonstration.

## Meeting notes:

11/2    [Group Meeting with Advisors](#)

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

### Purpose and Goals:

This week's goal was to discuss instructor presentation and GUI evaluation.

- Upcoming demonstration
  - Update design document
  - Update project plan
  - Poster design and due date
  - Presentation practice
- Elizabeth
  - GUI progress demonstration
    - Data retrieval problem fixed
    - Similar points for each frequency
    - Peak width plotting for frequencies
  - Current functions
    - Frequency spectrum (no FFT shift)
    - Read multiple files
    - Output
      - Peak
      - Width
      - Amplitude
      - Frequency
      - Characteristics with legend
  - To do
    - Output original spectrum
    - Button command for results from original spectrum
    - Fix Fourier Transform problems

## **Pending issues**

1. Semester documents
2. Semester goals

## **Individual Contributions (this week)**

Matthew Mulloy: Attended the meeting, material preparation, design document, weekly report (8 hrs.)

Elizabeth Clarkin: Attended the meeting, GUI (10.5 hrs.)

Marion Okoth: Attended meeting, (injury) (1 hr.)

## **Total contributions this semester**

Matthew Mulloy (64.5 hrs.)

Elizabeth Clarkin (54 hrs.)

Marion Okoth (47 hrs.)

## **Total contributions for the project**

Matthew Mulloy (168 hrs.)

Elizabeth Clarkin (187 hrs.)

Marion Okoth (137.5 hrs.)