

# EE CprE 491 – May 1819

## sdmay19-41 Senior Design Team

### Week 15 Report

*November 27 - December 4th*

*Faculty Advisors: Phillip Jones*

#### Team Members:

Brian Bradford — *DSP Engineer and Meeting Facilitator*

Louis Hamilton — *FPGA Engineer and Meeting Scribe*

Jared Danner — *FPGA Engineer and Report Manager*

Nick Knuth — *FPGA Engineer*

Vishal Joel — *GUI Developer and FPGA Engineer*

#### Summary for Progress this Week

This week includes completion of both the Project Plan final version, Design Document version 2, and the Final Presentation for CPR E 491.

#### Past Week Accomplishments

- Project Plan Final Version
  - Discussed reflection due at the end of the week.
  - Completed final needed sections
  - Polished up sections still missing points
- Design Document Version 2
  - Iterated upon the previous version.
  - Add missing sections
  - Updated previous sections to reflect current progress
- Final Presentation
  - Created a conceptual sketch to highlight a typical use case of a CASPER spectrometer
  - Consolidated information from both the Project Plan and Design Document
  - Created demo video of Migen Hello World application of ZCU106

#### Pending Issues

None currently. Continue work on existing goals.

## Individual Contributions

<b>Team Member</b>	<b>Contribution</b>	<b>Weekly Hours</b>	<b>Total Hours</b>
Brian Bradford	Project Plan, Design Document, Final Presentation	9	74.5
Louis Hamilton	Project Plan, Design Document, Final Presentation	7	60.5
Jared Danner	Project Plan, Design Document, Final Presentation	7	66
Nick Knuth	Project Plan, Design Document, Final Presentation	7	61.5
Vishal Joel	Project Plan, Design Document, Final Presentation	7	60

## Comments and Extended Discussion

### Plans for Coming Week

Continue investigation into GNURadio. Continue working through creation of a PYNQ overlay using to connect to the MPSoC ZCU106.

### Summary of Weekly Advisor Meeting

Due to scheduling conflicts between group members and our advisor, we did not have an advisor meeting this week. We instead used this time to continue to fine tune our final presentation.

### Minutes

- Advisor meeting did not take place this week.