

Executive Summary – Maxwell Bakes

Contributions

- Made code for ADC and SPI protocol.
- ADC
 - Researched architecture, quantization levels, channel requirements etc.
 - Found model, made schematic.
- Routing and layout on PCB
- PowerPoint presentation
- Poster
- Final Report

Ideas for Future Work

- Modularize sections on PCB.
- Design board for high speed applications
- Create points for testing on the pcb.

Week	Time	Main accomplishments
1-3	21	Researched ADC architectures and began learning VHDL
4	13	Found a suitable ADC for PCB. Continued to learn VHDL and began learning about SPI protocol.
5	13	Worked on implementing SPI in VHDL. Began putting ADC component on Altium.
6	16	Finished ADC and Finished SPI
7	11	Tested Spi, fixed ADC harness
8	10	Reviewed schematics, Added components and values.
9	13	Worked on Altium routing
10	15	Continued routing
11	15	Made code for programming the ADC. Began working on the final paper.

12	17	Finished code for ADC and worked on documentation.
13	14	Worked on poster and slides for presentation.
14	4	Continued work for final paper documentation.
Total:	162	