



# ANDREW FOWLER

ANDREWFOWLER90@GMAIL.COM

CELL: 850.261.1361

## OVERVIEW

This is where all my recent school projects will be uploaded (note that they are organized by the software used to create them).

## CODE COMPOSER (Used in Microprocessor Applications)

Wrote many programs in assembly for the TI TMS320C28x series DSP

- Lab 1** Memory Initialization via .mif file
- Lab 3** Switch LED on and off via GPIO and delay loops
- Lab 4** IO port and Keypad
- Lab 5** SCI
- Lab 6** LCD A-D converter
- Lab 7** Making Sound with ePWM systems, interrupts, and timers, while using keypad to play the note.
- Lab 8** Input Capture and compare - playing sound via a TV remote control

## QUARTUS

Mainly used in digital logic, but also used in Microprocessor applications for chip selects.

- Lab 4** Chip select
- Lab 3** Decoder
- Lab 6** ALU
- Lab 7** A bunch of stuff including a VHD file, and some uses for flip flops (saved as quartus archive)
- Lab 8** Elementary CPU

## QUARTUS WITH VHDL

I am in a class right now that the lab portion of the class is to design a 5 stage pipelined MIPS processor with data forwarding and hazard detection.

- Single Stage** pipelined MIPS processor
- 5 stage pipelined MIPS processor

## JAVA / NETBEANS / ECLIPSE

- Project 2** for Computer Organization: Given a set of binary, convert it into MIPS assembly and execute it.
- Minesweeper** The project was to write a computer game with a GUI, I decided on minesweeper.

## PERL

While working at AMD as a co-op I used Perl for data processing scripts. The input for the scripts was a proprietary data storage format, and the final output was .png graphs and a webpage that linked to all of the plots.

## C++

My C++ experience comes from a class called data structures. The C++ programs were used to expand our understanding of the language and different data structures and more efficient code.