

Engineering Notebook Spring Semester 2024

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1/11/2024: First day back from break and met in the auditorium. Talked to both professors about outcomes and expectations. Also talked about what went great/ok from last semester. Looking forward to meeting with the group next week and discussing what we will be working on.

1/16/2024: Met up with the group today and figured out when everyone was available this upcoming semester. Also started to work on the product vision and determined what roles will be what.

1/25/2024: Today we researched different microblaze projects. Eventually we will all pick and do the same one but individually that way everyone can understand the project and be able to explain it to someone who doesn't know what we're doing.

1/30/2024: Broke up the tasks of hello world and I started it today. Unfortunately, I could not get the bitstream to generate.

2/1/2024: Restarted the project to see where I messed up and I got the bitstream to work! Final step couldn't get completed because sdk could not program FPGA

2/6/2024: Figured out that the problem was probably how I installed vivado 2018.3 and it is missing a driver. We also started working on a presentation for Thursday.

2/8/2024: Presented and presentation went well!

2/13/2024: Completed peer evaluations and discussed with the group on what the next step in the plan is.

2/15/2024: Today we all met up together during class time and discussed what the plan is moving forward. We will add components to the FPGA code and update the webpage.

2/22/2024: Today I reinstalled vivado and afterwards will rebuild the hello world to be able to have GPIO

2/29/2024: Worked on the PowerPoint that we will present on 3/5/24

3/5/24: Presentation went great, and we were able to give a demonstration with the FPGA doing simple math calculations

3/7/24-3/17/24: Spring Break

3/18/24-3/22/24: Laptop motherboard fried. Needed to get a new computer.

3/26/24-3/28/24: New laptop was bought, and Ryan helped me run the vivado project on my new laptop which successfully ran the ethernet and opened the webserver on Firefox. Next steps are to edit the webserver and make it more user friendly.