**CPU Design Project – Part 5**

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CPU Design project is my very first project in Auburn University. I enjoyed working on this project. I learned a lot about multi-cycle datapath after working on this project. It gave me an overall idea of how a CPU is designed in industry. Theoretical concepts are very much clear and I have a better understanding of the CPU. I am happy that I could execute the project. It gave me confidence and more responsibility towards my work. I can take up projects in industry which involves CPU design with more confidence. This project is more like an actual project in an industry. Thanks to GA she helped me a lot in getting the code working when I had some problems with Register file, Without her i would not have done it in time.

I would like to work on pipeline datapath next time. Pipeline would be more challenging and a newer technology than single cycle or multi-cycle. Also in the existing multi-cycle datapath I would like to make changes to my datapath so that jump could be executed in two cycles.

My advice to future students is, start working on this project as early as possible. Understand the problem. Read the project description several times. Have a clear understanding of the requirement. Once you understand the problem coding part is not too tough. It takes some time to get through with the tools, but you will be comfortable after few practices. Please give your full effort in completing this project. The feeling and satisfaction you get from this project is tremendous.