

Job Title: Systems Design Engineer  
Job Number: 8738, 8740, and 8739

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To Whom It May Concern

I am writing for the System Design Engineer position (Job Numbers above). Xilinx was ranked as the number two best company to work for in the western United States by Fortune Magazine 2005. I would be honored to be able to work at Xilinx. In fact, I was invited for a second round on-site interview on November 29<sup>th</sup>, 2005 (interviewer: Harn-Hua Ng). Unfortunately, my F-1 visa status at that time forced me to decline the position for the January-August Internship. However, I will be available to work without a H-1B visa for one full year after graduating on August 18<sup>th</sup>, 2006.

I finished a Verilog project using Xilinx FPGA in my Component and Digital Design class (CS 150), and earned an A- in the class with maximum project scores. I was able to use the Xilinx FPGA board to design various verilog circuits. I have grown accustomed to Xilinx development environment, instead of Altera or Lattice development environments, through my lab experience. One of the FPGA functions involve receiving data from the Ethernet, and output the data to the AC97 Audio Chip and a text-based LCD with a Hitachi chip. In the projects, we used Xilinx Project Navigator, Synplicity Synplify, Modelsim, and ChipScope.

I earned A's in three C programming courses, and one C++ programming course. In these classes, I completed two programming projects with more than one thousand lines of code each. Besides, my upper division Communication Network Design course (EE 122) in UC Berkeley involves TCP/IP socket programming and timing issues in C for packet transfers. This allowed me to gain network programming experience in C.

With 4 years of experience designing web pages and coding experience with CGI, TCL, and PHP (very similar to Perl), I believe I possess the required scripting language skills. The networking class (EE 122) uses TCL for networking stimulations and compares between different networking protocols (TCP tahoe, TCP reno, TCP vegas, TCP FAST). My PHP program opens a socket, sends a request to an external database over the internet, parses the responses, and displays the results in HTML. I also manipulated a SQL database using PHP.

As a regular Mac user, I like to play with all the linux applications in my Mac, and I can handle common Linux operations. In addition, I installed Red Hat Linux Fedora on my PC.

Finally, I got an A grade in a Technical Communication course (E 190), in which we learned to explain technical matters to general audiences. I look forward to explaining my projects to you.

Sincerely,  
Bill Hung