Tyler Hayden Pasch

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Objective
Summer employment with a computer corporation and valuable industry experience.

Education
University of Michigan - College of Engineering - BSE Computer Engineering September 2006 to April 2010
○CSE Scholar
○Cumulative GPA of 3.47
○Created a C++ sudoku puzzle solver, Monopoly simulation, and Blackjack simulation
○Created an assembler and microprocessor simulator in C
○Designed and created a microprocessor-based laser tag system using the Altera DE2
○Studied logic design and circuit optimization.
○Courses taken:Computer Architecture, Digital Logic Design, Electric Circuits, Programming and Data Structures

Experience
Reliability Engineering Intern, Lattice Semiconductor Corporation May 2008 to August 2008
○Performed electrical and physical analysis with FPGAs and CPLDs to determine root causes of customer failures
○Characterized alpha radiation soft error rate on unreleased, cutting-edge FPGA's
○Created a proof of concept web-based customer returns tracking database application
○Created LabView Virtual Instruments to automate and enable remote data collection and increase productivity
○Trained fellow engineers in engineering tools and solutions
○Wrote formal reports explaining root cause analysis results, implications, and corrective actions to customers

Equipment Manager, University of Michigan Football Team August 2006 to Present
○Organize, inventory, and distribute, and track 2+ million dollars worth of athletic equipment
○Meet time-crucial deadlines to sustain working order on the sidelines during games
○Adapt quickly to constantly changing problems and situations

Crop Insurance Assistant, Greenstone Farm Credit Services April 2007 to August 2007
○Processed crop insurance policies
○Digitized hand-drawn maps using a remote web-based GIS mapping application
○Taught other insurance specialists to use available software tools more efficiently
○Presented my ideas on insurance mapping and processing software at a conference in Minnesota

System Control and Data Management Consultant, Consumer's Energy May 2006 to August 2006
○Taught and managed other summer help
○Wrote macros and scripts to assist data cleanup
○Automated portions of data conversion, eliminating human error, and saving man-hours
○Streamlined the migration of power infrastructure CAD maps to a state-wide, dynamic ArcMap database

Skills
○Quick Learner
○Analytical thinker/Problem Solver
○Electronics skills: soldering, using DMMs, oscilloscopes, ATE testers(Credence, Agilent, NextTest)
○Work Well In Teams
○Proficient in: C, C++, MATLAB, Shell, Verilog, XHTML, CSS, Unix, Linux, Mac OS X, LabView
○Familiar with: Python, Perl, AppleScript, Assembly Language, PHP, MySQL

Activities
○CSE Scholars - Program Development Co-Chair
○Website Design
○Woodworking/Furniture Building
○Microblogging