

Tyler Dane Olsen

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Objective

To obtain a challenging computer hardware design internship for Summer 2005.

Education

Master of Science, Computer Engineering, May 2006

The University of Texas at Austin

Overall GPA: 0.00/ 4.00

Major GPA: 0.00/ 4.00

Bachelor of Science, Computer Engineering, May 2004

Purdue University

Overall GPA: 3.60/ 4.00

Related Courses

Compilers & Translation Systems Engineering, Operating Systems, Object Oriented Programming and Design (2 courses), Computer Architecture, VLSI I, Data Mining, High Speed Computer Arithmetic I

Experience

01/15/2004 – 05/10/2004

Undergraduate Teaching Assistant, Purdue University

Responsible for a 3-hour lab section for ECE495D, a junior ASIC design course. Gave lab lectures, graded assignments, assisted students both in lab and in office-hours.

Academic Experience

Undergraduate Research Assistant – Dependable Computer Systems Research Laboratory

Designed an adaptive, defensive response-taking algorithm to computer intrusions. Ran experiments to determine effectiveness of algorithm and reported results in a publication.

Team Leader, Senior Design Project

Designed and manufactured a GPS Personal Trainer for athletes. Reported status of distance, speed, and heart rate to user. Wrote embedded C code for Atmel processor and debugged/tested design on development board.

MIPS CPU design project – ECE437 (Comp. Arch.)

Designed two MIPS CPUs, one multicycle and one pipelined with separate data and instruction caches. Synthesized designs and tested on Altera FPGAs.

Semester Design Project – ECE495D (ASIC Design)

Team design of a MP3 player microcontroller using VHDL and RTL approaches.

Skills

Computer Languages: C, C++, Java, Python, Perl, MIPS assembly, VHDL
Environments: UNIX, Linux, Windows (95/98/2000/XP)
Tools: Matlab, PSpice, Cadence, Synopsis
Semi-fluent in Japanese

Publications

“ADEPTS: Adaptive Intrusion Containment and Response using Attack Graphs in an E-Commerce Environment”: Yu-Sung Wu, Bingrui Foo, Blake Matheny, Tyler Olsen, Saurabh Bagchi. CERIAS Tech Report 2003-33.

Employability Status: **US Citizen / Permanent Resident**