Bao Tri Thai

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EDUCATION

Rochester Institute of Technology
BS/MS in Computer Engineering
Double Major: Economics
Expected Grad. May 2020
Cum. GPA: 3.97

SKILLS

Languages:
C++, VHDL, Verilog, ARM Assembly, Python
C, Java, JavaScript, HTML/CSS, LaTeX
Software:
OrCAD Capture CIS, Quartus II, Xilinx ISE
ModelSim, Keil uVision 5, Git, SVN
Hardware:
Oscilloscope, Function Generator, Multimeter
Operating System:
Windows, Linux

COURSEWORK

Digital System Design I,II
Interface and Digital Electronics
Computer Organization
Applied Programming
Assembly Language Programming
Electronics I - Circuits I,II
Intro to Software Engineering

ACTIVITIES

Boy Scout - Asst. Troop Leader
RIT Economics Club - Secretary
RIT Pep Band - Guitarist
RIT Cycling Club - Member
RIT Table Tennis - Varsity

AWARDS

4xDean's List (F2015, S2016, F2016, S2017)
2xCE Teaching Assistant Award (F2016, S2017)
RIT International Scholarship
ASSIST Scholarship Class of 2012-2013
Cum Laude Society (Loomis Chaffee)

OBJECTIVE

To obtain an internship or co-op position starting Spring or Summer 2018 in a position that allows me to deepen my understanding of Computer Engineering.

PROJECTS

NXP Cup Car
Competed in the NXP autonomous car competition in a team of two. The car was to race around a track using a line-scan camera. PID control , differential drives, and digital filtering were implemented.

PPG Heartbeat Monitor
As part of a two-person team, designed and implemented a PPG-based heartbeat monitor using an optical isolator, filtering circuits, and K64 microcontroller.

Vending Machine in VHDL
Designed and implemented in VHDL a state machine emulator that detected different coin values and determined whether the amount of money deposited was enough for a requested soda.

SRAM in VHDL
Designed and implemented in VHDL a memory using SRAM with a memory controller that allowed user to read, burst-read, and write to 8 different memory addresses.

Boy Scout Management System
Implemented a Django-based web app to manage information of my Boy Scout troop. Introduced troop members to software development.

Analog Fuzz Guitar Pedal
Made a fuzz guitar pedal using two AC128 transistors based on the design of Jimi Hendrix Fuzz Face.

EXPERIENCE

RIT Computer Engineering Department May 2017 – Present
Research Assistant Co-op Rochester, NY

- Analyzing the firmware (in Verilog) and software (in C++) of a hybrid memory cube control system.
- Modifying provided firmware and software to develop new programs that perform algorithms involving memory accesses.

RIT Computer Engineering Department Aug 2016 – Present
Teaching Assistant Rochester, NY

- Guiding new Computer Engineering students through laboratory exercises of Intro to Computer Engineering and Digital System Design I
- Mentoring the students and introduced them to the work and area of study of Computer Engineers