

# Tina Chin ▶

Email: tina[at]alumni.ucsd.edu

## Objective

---

To apply my engineering abilities in a challenging and engaging environment.

## Education

---

**2006 – Present** **University of Southern California**

- Major: Electrical Engineering, M.S.
- Expected Graduation: May 2008

**2001 – 2006** **University of California, San Diego**

- Major: Electrical and Computer Engineering, B.S.
- GPA: 3.42

**1997 – 2001** **Torrance High School**

- GPA: 3.80

**Courses:** Circuits & Systems, Active/Passive Network Analysis, Electromagnetism, Probability & Random Processes, Semiconductors, Active Circuit Design, Digital Circuits, Linear Systems, Digital Signal Processing, Nuclear & Particle Physics, Communication Systems I-II-III

**Computer Skills:** MatLab (Simulink, Xilinx) PSPICE, MS Office, Visio

**Equipment:** Oscilloscopes, function generators, circuit breadboards, op amps, and BJT's

## Work Experience

---

**Sept.–Dec. 2005** **ECE Group Design Project**

*Project Title: Simulink, System Generator and FPGA based Modeling and Testing for MIMO-OFDM System*

Worked with Cal-IT<sup>2</sup> mentors to model, simulate, and test a basic MIMO-OFDM system on an FPGA/DSP. Tasks included developing a bit generator to create a stream of random bits, loading bits from source into Xilinx FIFO block for proper timing and allocation to correct MIMO output chain, passing bits into Xilinx IFFT block for conversion to time domain, adding symbol redundancy to lower error rate, and passing results into Xilinx DAC block for analog transmission.

**Mar.–Sept. 2005** **Northrop Grumman Space Technology**

*Intern*

Worked again with Integrated Avionics V&V team to document and debug testbed SBC prototype software, operate IA testbed, organize matrix items, and create hardware IDR presentations.

**June–Sept. 2004** **Northrop Grumman Space Technology**

*Intern*

Worked with Integrated Avionics V&V team from Space Vehicles Systems Engineering to organize e-Matrix items, assist general MIL-STD-1553B data bus format development, measure board level electronic wave forms, and organize and present status reports.

**July–Sept. 2003** **Northrop Grumman Space Technology**

*Intern*

Supported the Attitude Control Subsystem team on the Airborne Laser (ABL) Program. General tasks included analyzing data, generating block diagrams, and some C programming. Conducted tests in ABL program high bay area (TF3) operating the RACT test-beds.

## Awards and Honors

---

- **Fall 2001, Spring 2002, Winter, Spring, Fall 2005:** Provost's Honor Roll
- **2004-2006:** NGST Diversity Engineering Scholar.