

Education

Stanford University, Stanford, CA

- 09/2005 - present M.S. in Electrical Engineering focus on Machine Learning and Signal Processing, **GPA 4.06/ 4.3**, 5 A+ (4.3) out of 13 graded courses (A+ is generally awarded to top 5% of the whole class)
- 09/1999 - 06/2003 National Chiao Tung University (NCTU), Hsinchu, Taiwan
B.S. in Electrical Engineering, GPA 3.89/ 4.0, rank 2/ 47
- Sep 2006 IBT 112 (Reading 28 Listening 29 Speaking 27 Writing 28)
- July 2002 GRE 2320 (Verbal 770 Analytical 760 Quantitative 790)

Academic Experience

- 06/2006 - present Independent Study, with **Prof. Andrew Y. Ng**, Stanford AI Lab
Applied machine learning algorithm on automatic 3D reconstruction using single still image, predicted from proposed Plane Parameter Markov Random Field (MRF) model.
- 01/2006 – 03/2006 RF microelectronics course project, at Stanford
Designed and optimized a **Tri-band** (1.8GHz , 2.0GHz, and 2.2GHz, for GSM, WCDMA, and CDMA 2000) LNA with Noise Figure = 0.69dB using 0.35 μ CMOS TSMC technology
- 09/2001- 09/2002 Research Assistant, **Nanoelectronics and Gigascale Systems Lab**, Chiao Tung Univ., Taiwan
Proposed and simulated a new network model to perform image morphological operations using Novel Quantum-Dot Cellular Automata.

Industrial Experience

- 02/2005 - 07/2005 Assistant engineer, E-automation department of Mirle Corp., Hsinchu, Taiwan
Designed a compact TCP&UDP/IP stack for small memory embedded system.
- 07/2000 - 08/2000 Intern, Computer & Network department of Mirle Corp., Hsinchu, Taiwan
Maintained the whole company's intranet of PC, Server, and Web accessible controller.

Leadership Experience

- 06/2006 – 07/2006 Participant, Summer Institute for Entrepreneurship, the **Graduate School of Business, Stanford** Univ. Proposed Y-Net satellite internet solution for rural area with good social impact
- 09/2002 - 06/2003 **Director**, Nano-Century Club, National Chiao Tung University, Invited leading researches in the field of Nano technology for special lectures and held focus groups on specific topic related.
- 09/2001 - 06/2002 Vice President, Student Association of EE Department, National Chiao Tung University

Skills

C++/ C, Perl, Matlab, Unix/Linux system, Assembly Language, Hspice, Verilog, DSP applications, FPGA implementation, electronic component system design.

Honors

Academic Achievement Award (Dean's List: top 3 in class): 5 semesters, NCTU

Publications

- Conference Papers Ashutosh Saxena, Min Sun, Rajiv Agarwal, and Andrew Y. Ng. Learning 3-D Scene Structure from a Single Still Image. ICCV 2007, submitted.
- Conference Papers TSLHCW. A New Two-Layer Quantum-Dot Large-Neighborhood Cellular Nonlinear Network (QLN-CNN) Using Quantum-Dot Cellular Automata. IEEE-NANO 2002, 26-28 Aug. 2002.
- Book Co-author, NanoWorld – Giving Univ. New Opportunity, Taipei, NCTU publisher, Aug. 2002