

Victor Liu

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60 Olmsted Road, #104
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Objective To complete work on a Ph.D. degree in electrical engineering. To work in a challenging and innovative research environment. Specific areas of interest include optoelectronics, nanotechnology, and physical device simulation.

Education **California Institute of Technology, Pasadena, CA** *Sept. 2003 - 2007*
B.S. degree in electrical engineering.
Academic advisor: Prof. Amnon Yariv GPA: 4.0

Monta Vista High School, Cupertino, CA *1999 - 2003*
Graduated in top 5% of class.

Publications Z. Zhang, L. Yang, V. Liu, T. Hong, K. Vahala, A. Scherer, "Visible submicron microdisk lasers," Applied Physics Letters **90**, 111119 (2007)

Courses applied and computational math, statistics, mechanics, electromagnetism, quantum mechanics, thermodynamics, feedback & control circuits, optical system design, semiconductor devices, microprocessor systems, digital design lab, sensors & actuators, signals & transforms

Computer Skills **Programming languages:** C/C++, Java, Perl, Visual Basic, x86 assembly, VHDL
Operating systems: MS Windows, Mac OS, Linux, UNIX
Software tools: MS Office, LabView, Mathematica, Matlab, SPICE, Quartus

Work Experience **Intern, FastSoft Inc., Monrovia** *Summer 2007*
Developed theory and implementation of new TCP algorithms in FreeBSD kernel.
Developed infrastructural applications to streamline code verification.

Teaching Assistant, Caltech, Pasadena *Sept. 2006 - June 2007*
For E.E course "Feedback and Control Systems."
Instructor: Prof. Glen George

Research Assistant, Caltech, Pasadena *Summer 2006*
Nanofabrication Laboratory, Prof. Axel Scherer Research Group

- Characterized visible quantum well disk lasers.
- Fabricated and characterized metal contacts to quantum well material system.

Teaching Assistant, Caltech, Pasadena *Sept. 2005 - June 2007*
For E.E./C.S. course "Principles of Microprocessor Systems."
Instructor: Prof. Glen George

Undergraduate Research Fellowship, Caltech, Pasadena *Summer 2005*
Nanofabrication Laboratory, Prof. Axel Scherer Research Group

- Studied surface plasmon enhancement of silicon electroluminescence.
- Trained in electron microscopy and focused ion beam technology.
- Designed an optical test setup for electroluminescence and photoluminescence measurements.

Undergraduate Research Fellowship, Caltech, Pasadena *Summer 2004*
Nanofabrication Laboratory, Prof. Axel Scherer Research Group

- Studied surface plasmon coupling in silicon material systems.
- Gained experience with sputter systems, SEMs, etc.
- Indicated possible enhancement with very thin films.

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- Awards & Honors**
- ASCIT Teaching Award (*2007*)
 - Carnation Scholarship recipient (*2006*)
 - Member of Tau Beta Pi (*since 2005*)
 - National Merit Scholarship Recipient (*2003*)
 - Semifinalist for the U.S. Physics Team (*2002*)

References Available upon request.