

# JESSICA (JESSA) H. LEE

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## EDUCATION

9/05-6/09

**Stanford University**, Stanford, CA

- Pursuing a B.S. in Physics with a minor in C.S. to be conferred 6/09.
  - Coursework includes Quantum Mechanics, Electricity & Magnetism, Thermodynamics, Materials Science, Discrete and Continuous Mathematics (Probability, Linear Algebra, Partial Differential Equations) and Computer Science (Algorithms, JAVA, C++, C).
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## HONORS / AWARDS

- Dean's Award Recognizing Outstanding Membership in the Stanford Society of Women Engineers, Stanford School of Engineering (2007).
  - Stanford Society of Women Engineers Scholarship for Academic Excellence and Outstanding Commitment to SWE (2007).
  - Highbridge/Mary Sunseri Award in Mathematical Problem Solving for Top Female Scorer at Stanford University in the William Lowell Putnam Mathematics Competition (2005, 2006).
  - Stanford University President's Award for Academic Excellence in the Freshman Year (2006).
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## EXPERIENCE

1/07-present

**Technical Mentor**, Castilleja School All-Girls FIRST Robotics Team, Palo Alto, CA

- Teach C, electronics and basic control theory to members of the programming team in order to drive 110 lb, 5'x4'x3' robot competing in the FIRST Robotics Competition.
- Designed, organized and ran a 1-week summer robotics camp for 10 high school girls with 2 co-mentors. Workshops included C programming, introductory electronics, mechanical linkages, shop training, mechanical design and prototyping (2007).
- Received Outstanding Mentor Award at Northern California Regional FIRST Lego League Competition (2004) after mentoring 7 teams of 3-5 middle school students between 2002 and 2004.

1/06-present

**Electrical Engineer**, Stanford Solar Car Team, Stanford, CA

- Design hardware and write code for electrical system, including light controllers and LED display.
- Build solar car using composite materials such as carbon fiber and fiberglass.
- Raced solar car in the World Solar Challenge, a 2000-mile cross-continent race from Darwin to Adelaide, Australia (9/07).

9/06-present

**Co-Chair High School Outreach, Intern Middle School Outreach**, Stanford Society of Women Engineers, Stanford, CA

- Organize Junior Engineering Technical Society TEAMS Bay Area Regional Competition, a collaborative competition designed to encourage interest in science and engineering among high school students.
- Designed and led outreach workshops for over 50 sixth graders at East Palo Alto Charter School.

1/07-present

**Section Leader/Course Assistant**, Programming Methodology, Stanford University, Stanford, CA

- Hold weekly office hours for students in introductory programming courses.
- Taught weekly section, gave feedback on assignments for 12 students in intro. programming course.

3/07-8/07

**Research Assistant**, Computer Science Department, Stanford University, Stanford, CA

- Implemented a Kalman Filter for a remote control car system in order to build a test platform for high-speed control algorithms.
- Conceived and co-organized summer speaker series featuring Stanford professors and their research.
- Received Summer Research Grant from the Department of Computer Science.

6/06-8/06

**Research Assistant**, Physics Department, Stanford University, Stanford, CA

- Revised and constructed electronic feedback systems for scanning tunneling microscopes to allow sub-milliangstrom precision in quantum measurements on single atoms.
  - Received Undergraduate Summer Research Program Grant.
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## SKILLS

- C++, JAVA, C, Scheme, Matlab