

Gabriel Parisi-Amon

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EDUCATION

- 9/05-present **Stanford University**, Stanford, CA
- BS Mechanical Engineering, expected June 2009
 - MS Mechanical Engineering, expected December 2009
 - *Mayfield Fellows Program* 2009: highly selective, nine-month work/study entrepreneurship program through Stanford Technology Ventures Program.
 - Honors Thesis: Thermal Analysis of a Quantum Dot ALD/AFM system
 - Elected *Tau Beta Pi*, National Engineering Honors Society
 - Hispanic Award for career excellence in academics and in an honors thesis
 - Stanford Class of 2009 *Award of Excellence*: for a commitment to Stanford through involvement, leadership and spirit.
- 9/01-6/05 **Central Catholic High School**, Pittsburgh, PA
- Awards: *Commended National Merit Scholar*, *National Honors Society*
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WORK EXPERIENCE

- 10/07-present **Stanford University**, *Research Assistant*, Stanford, CA
- Design, with a team, novel integrated system to make Quantum Dot arrays.
 - Thermally modeled system to ensure component safety and increase machine efficiency.
- 8/07-present **Stanford University**, *Resident Assistant*, Stanford, CA
- Worked closely with staff ranging from 10 to 22 members to create a safe and educational dorm environment for 310 students.
 - Organized and led events while providing guidance for residents' development.
- 6/08 -9/08 **Ardica Technologies**, *R&D Intern*, San Francisco, CA
- Optimize hydrogen-producing components for personal power cogeneration systems.
 - Designed accessories for commercial product reaching the market in winter 2008.
- 6/07-9/07 **Bombardier Transportation**, *R&D Intern*, Pittsburgh, PA
- Redesigned auxiliary box for Bombardier's main train car, including frame, materials and optimized weight and price.
 - Directed several drafters and collaborated with a team of six engineers.
- 6/06-9/06 **Institute for Complex Engineered Systems**, *Researcher*, Carnegie Mellon University
- Studied pre and postoperative aneurysms working with surgeons and engineers.
 - Modeled patient CT Scans to predict forces that cause Aortic Aneurysm ruptures.
- 3/06-6/06 **Stanford University**, *Research Assistant*, Stanford, CA
- Harvested chloroplasts to derive voltage directly from cell fragments.
 - Worked with a research team to generate electricity from a plentiful renewable resource.
- 1/05-9/05 **Bioengineering Lab**, *Research Assistant*, Carnegie Mellon University, Pittsburgh, PA
- Modeled commercial bio filter, analyzed design and effectiveness in collaboration with a group of researchers, while providing feedback to original designers.
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LEADERSHIP EXPERIENCE

- 9/06-present **Hispanic Peer Mentor, EAP (Expanded Advising Program at Stanford University)**
Advise and mentor 6 to 12 Hispanic freshmen per year.
- 9/07-04/08 **Teaching Assistant for Psych 135 'Sleep and Dreams'**
Organize and run a class of 680 students with 9 other TAs and a Professor.
- 2005-2006 **President of Roble Dorm**, Stanford University, CA
Elected to lead a 300-student dorm, organize events, and represent the dorm.
- 2003-2006 **Engineering Your Future**, Carnegie Mellon University, PA
Helped design and teach a two-week annual summer workshop to introduce engineering to middle school and high school female and minority students.
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PUBLICATION Finol, E., Parisi-Amon, G. *et al.*, 2008 "Nonlinear Anisotropic Stress Analysis of Anatomically Realistic Abdominal Aortic Aneurysms," *Journal of Biomedical Engineering*, submitted

SKILLS

Computer: Experienced with Mac and PC; including Microsoft Office, and Java
Engineering Programs: Fluent, Gambit, Unigraphics, Solid Works, Pro-Engineer
Languages: Spanish: fluent speaking, reading and writing; Italian (citizen): fluent speaking