

ANDREA NOHEALANI KLEISSNER

andik@stanford.edu
P.O. Box 37
Los Gatos, CA 95031
408-605-7227

EDUCATION:

9/04 - present **Stanford University**, Stanford, CA
Expected Bachelor of Science in Mechanical Engineering, 6/09
Coursework includes: Mechanical Design, Manufacturing, Renewable Energy, and Social Entrepreneurship
GPA: 3.8/4.0

EXPERIENCE:

- 09/08 - present **Mentorship Program Director**, BASES Social Entrepreneurship Challenge
- Recruiting and matching mentors with teams competing in Stanford's premiere business plan challenge
- 6/08 - 9/08 **Intern**, IDEO, Shanghai, China
- Led brainstorm groups in a deep dive workshop with Microsoft, exploring options for new cell phone technology.
 - Redesigned the TechBox in the office, creating an interactive display for brainstorm teams to incorporate innovative, new technologies in their designs.
- 2/08 - 5/08 **Intern**, American India Foundation, New Delhi, India
- Provided manufacturing support for the production of a lighter, smoother-driving cycle rickshaw. These cycle rickshaws are part of a microfinance scheme in which drivers are able to own their rickshaws within 450 days, eliminating the burden of daily rental fees.
 - Designed a full-scale manufacturing jig and alignment tools for better accuracy and speed of production for replication and scaling of rickshaw production across India.
 - Designed a new bearing casing to improve the life of the bearings, thereby decreasing the burden of repair costs.
- 9/07 - 2/08 **Intern**, Lanka Gasifiers, Colombo, Sri Lanka
- One of three on-site engineers. Responsible for design improvements and R&D.
 - Micro Biomass gasifiers (9 kW), designed and built by Lanka Gasifiers, are currently deployed in seven villages in rural Sri Lanka providing renewable, CO₂ neutral, affordable energy in remote rural areas with no access to the national grid.
 - Re-engineered and improved gasifier to lower manufacturing cost by using locally available materials and manufacturing capability. Designed a ceramic firebox to replace a more expensive stainless steel firebox, improved filtering methods, and redesigned the cooling system.
 - Wrote a field operator's handbook to be published in English and Sinhala; observed and interviewed machine operators in order to create a needs-specific reference book.
 - Upgraded the gasification system drawings from Microsoft Word to SolidWorks.
 - Built 1/4 scale model of gasifier for demonstration use at technology exhibitions in Europe and Asia.
- Summer 2007 **Product Realization Lab Fellow**, China
- Member of team led by Stanford Professor Dave Beach, that visited southern China to learn more about Chinese manufacturing and document various manufacturing processes. Manufacturing visits hosted by Vice President of Specialized and President of Zao Technology Innovations, Inc. Documented trip with recordings and video.
- Fall 2006 **Co-leader of an Alternative Spring Break Class**, Stanford, CA
- Taught class in winter quarter titled "Social Entrepreneurship in the Bay Area."
Organized weeklong seminar for 13 students which included visits to and volunteering for entrepreneurial social ventures.

SKILLS:

Computer: Proficient with Windows, SolidWorks, MatLab, and Dreamweaver
Languages: Fluent in English and German; Intermediate spoken Mandarin