

ALEXANDER EN-TZU SHIH

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EDUCATION

Massachusetts Institute of Technology, Cambridge, MA

Sloan School of Management and School of Engineering

Master of Science in Engineering and Management, SDM Fellow

expected June 2010

Cornell University, Ithaca, NY

Bachelor of Science in Mechanical Engineering, concentration in Aerospace

May 2005

WORK EXPERIENCE

Global Cycle Solutions (www.globalcyclesolutions.com), Tanzania, Africa – *Co-Founder* 2009–Present

- Original team member of start-up company and winner of MIT's \$100K Competition Development Track and Audience Choice Award, total winnings of \$33,500. Current Series A investment of \$120,000.
- Successfully guided business decisions and market positioning with demand and competition analysis.
- Designed and maintained website layout, IT, and media relations, attracting \$50,000 in contributions from investors and multiple sales and information inquiries each day.
- Managed sales and customer relations, secured early product orders and partnerships with distributors, and supported ground operations in Tanzania
- 2nd place out of 100+ projects at Nane Nane, annual agricultural showcase in Tanzania

Celedu (nextlab.mit.edu/spring2009/celedu), Media Lab, Cambridge, MA – *Project Manager* 2009–Present

- Managed prototype development of mobile literacy/educational tool, culminating in successful demonstrations that attracted key organizations for partnerships, such as Nokia and Development Alternatives.
- Executed pilot study in India, requiring significant improvisation, with results showing dramatic improvement in literacy in shorter time periods and quick adaptability to mobile learning due to intuitive design.
- Coordinated complex relationships between four critical stakeholders and their respective incentives to lock-in support for funding, logistics, consultation and expertise, and research objectives.

Raytheon Company, Integrated Defense Systems, Woburn, MA – *Systems Engineer* 2005–09

- Developed target discrimination Advanced Algorithms (AA) version control system (Six Sigma certification project), estimated \$152,270 annual cost savings.
- Co-led AA systems data collection analysis and flight test missions in the Terminal High Altitude Area Defense (THAAD) radar from 2006-08, contributing to 100% fulfillment of mission objectives.
- Supported AA development and system integration, collaborating with software and systems engineers to diagnose and resolve issues in order to deploy reliable solutions for the U.S. Army.
- Oversaw development of AA Monte Carlo performance analysis tools and procedures.
- Coordinated tasks and testing procedures for verification of new system-level software builds.
- Mentored and consulted for the AA library and architecture, developing a sustainable knowledge transfer process which tripled the AA team size.

SERVICE EXPERIENCE

American Chinese Christian Educational and Social Services (ACCESS),

Boston, MA – *New Initiative Developer, Tutor*

2006–Present

- In the process of co-founding a role-model mentor program for high risk students
- Led summer teaching team for Boston Chinatown elementary school students with our 2nd year attendance doubling our previous year's attendance.

Engineers without Borders-Boston Chapter, Boston, MA – *Organizer, Tutor*

2006–08

- Researched existing and emergent social trends to develop and deploy an after-school program focusing on engineering and science to 40 children between ages 5 to 11 at Joseph J. Hurley Elementary School.

Social Concerns Ministry (SCM), Chinese Bible Church of Greater Boston,

Lexington, MA – *Homeless Ministry Coordinator*

2005–09

- Coordinated and managed groups of approx. 10+ people for monthly projects at homeless shelters.
- Pioneered direction of SCM and launched directory of service opportunities within the church.

PUBLICATIONS

Z.C. Feng, A. Shih and W. Miller, "Self-Excited Oscillations of Structures by Particle Emission," *Nonlinear Dynamics*, No. 32, March 2003, pp. 15-32.

SKILLS AND INTERESTS

Six Sigma Specialist • Computer programming (Matlab, exposure to Java, C++, HTML) • MS Office tools • proficient in Mandarin Chinese and basic knowledge of Spanish • MIT/Cornell Bhangra Teams (instructor, choreographer) • long-distance running & charity races • acoustic guitar