

OBJECTIVE	To find full-time employment involving technology design and dissemination for underdeveloped communities with MIT's International Development Initiative.
EDUCATION	<p>Massachusetts Institute of Technology – Cambridge, MA September 2003 – present M.S. in Technology and Policy, June 2005. Relevant courses include: Economic Development and Technological Capabilities Sustainable Energy Economics for Business Decisions Law, Technology, and Public Policy Engineering Systems Design and Analysis Development Lab (D-Lab) Thesis: "Opportunities for Technological and Economic Development Policy in Brazil"</p> <p>Massachusetts Institute of Technology – Cambridge, MA June 2002 – June 2003 M.Eng. in Materials Science and Engineering, June 2003. Relevant courses include: Materials Selection, Design, and Economics Industry, Technology, and Ecology Thesis: "Process Modifications for Improved Optical Characteristics of K-Type Polarizer"</p> <p>Massachusetts Institute of Technology – Cambridge, MA September 1998 – June 2002 B.S. in Chemical Engineering, June 2002. Relevant courses include: Industrial Ecology Developmental Entrepreneurship How (and Why) Machines Work How to Make (Almost) Anything Drug Development in Practice Environmentally Benign Manufacturing</p>
EXPERIENCE	<p>MIT: Sustainable Energy: Choosing Among Options January 2005 – present <i>Teaching Assistant</i> Coordinated lectures and guest speakers. Helped students with assignments and term projects on sustainable energy issues with the main objectives of teaching the basics of energy production and analysis and the importance of technology evaluation and appropriateness.</p> <p><i>Research Associate</i> MIT: Lab for Manufacturing and Productivity September 2003 – present Performed analysis of environmental impact of manufacturing processes with an emphasis on energy and material flows. Final product intended to aid decision-making on sustainability and environmental factors in design and manufacturing.</p> <p><i>Summer Intern</i> 3M Optical Systems Division, Norwood, MA May 2001 – September 2001 January 2003 – May 2003 Worked closely with process engineers to improve characteristics of high end polarizers. Explored the use of dichroic dyes in polarizers, making significant steps to include this technology in new products.</p> <p><i>Undergraduate Researcher</i> MIT: Media Lab September 2000 – June 2002 Designed process for creation of porous silicon nanoparticles using ideal anodization. Intended for use in the production of printed transistors.</p> <p><i>Undergraduate Researcher</i> MIT: Department of Chemical Engineering September 1999 – June 2000 Designed, fabricated, and tested microreactors using microfabrication and sol-gel techniques with a short term goal of integrating synthesis and detection on the same chip.</p>
SPECIAL SKILLS	Good written and oral communication skills. Speaking, reading, and writing skills in Spanish, French, and Portuguese, some German. Proficient with computer applications including Office, Solidworks CAD, Maple, Matlab, and more.
LEADERSHIP	2004 MIT IDEAS Competition, Publicity and Evaluations Officer. 2004 Alliance for Global Sustainability Youth Encounter on Sustainability workshop participant. 2003 Ideas that Matter grant recipient with saveTFP, social norms awareness in MIT community. 2001 MIT \$1K Entrepreneurship Competition winning business proposal team, Dlo Pròp. 2001 Shell Gourami Business Challenge, multidisciplinary Exploration & Production simulation.
PUBLICATIONS	Co-author, "Origins of Anomalous Micellization in Diblock Copolymer Solutions," <i>Langmuir</i> . Lead author, "Life Cycle Analysis of Conventional Manufacturing Techniques: Sand Casting," ASME IMECE 2004. Co-author, "Environmental Analysis of Manufacturing Processes," 2005 NSF DMII.
ADDITIONAL ACHIEVEMENTS	Recipient of the 2001 3M Scholars Scholarship. Recipient of the 1998 Minnesota Technology Group Award and Scholarship.