SHAKEEL N. AVADHANY

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[Purpose]

Commercialization of energy solutions. Interested in both baseload power and transportation. Cogeneration, Turbines, Oil, Gas, Wind, Solar, Batteries, Efficiency. U.S. Citizen, b. 1987.

[Education]

Massachusetts Institute of Technology Cambridge, MA
S.B. in Materials Science & Engineering Expected June 2009

[Relevant Coursework]
Math: Calculus, Differential Equations, Partial Differential Equations, Mathematical Modeling
Materials/Physics: Thermodynamics, Kinetics, Optical-Magnetic-Electronic Properties of Materials, Crystallography, Physical Metallurgy, Materials Processing, Ceramics, Physics of Energy
Engineering: Intro to Digital Circuit Design, Advanced Energy Conversion

[Experience]

Levant Power Corporation *Boston, MA, January 2008 - Present*
Founder & CEO. Commercializing a regenerative shock absorber for the automotive industry.

MIT DMSE Yet-Ming Chiang Group *Cambridge, MA, January 2007 - April 2007*
High energy density microbattery fabrication.

Harvard University, L. Mahadevan Applied Math Group *Cambridge, MA, Summer 2006*
Derived mathematical model of a tabla (Indian drum) and optimized its desirable properties for manufacturers.

MIT Media Lab, Ambient Intelligences *Cambridge, MA, Fall-Spring 2006*
Assisted in the design and construction of a directional identification and playback system for use in museums.

Stanford CCRMA, "Automatic Transcription of Tabla Solo" *Palo Alto, CA, Summer 2005*
Assisted in Fourier analysis of tabla strokes to facilitate algorithm development of tabla recognition software.

[Capabilities]

Technologies: MATLAB (basics), Mathematica (basics), LaTeX, Scheme, C++ (basics)
Equipment: AFM, STM, XRD, Ellipsometry, Machining (CNC/Bridgeport), Casting (Investment, Sand, Die)
Other: Good general reasoning skills, good mechanical skills, very good communication skills

[Other]

USPTO Patent Application 12/104800 *Boston, MA, Jan. 2008*
Invented a shock absorber for vehicles that generates electric power from vertical travel of suspension.
Veteran's History Project *San Jose, CA, 2004-2005*
Conducted video interviews of WWII veterans for permanent archival in the Library of Congress.

[Interests & Fun]

Tabla, Drumming, Harmonica, Legos, Woodworking, Basketball, RC Hobbies, Vintage Audio, Travel