

**JYOTI AJITSARIA****Senior Engineer, Global Technology Connection, Inc.**

2839 Paces Ferry Road, #1160, Atlanta, GA 30339

**Phone:** *Work-* (770) 803-3001 **Fax:** (770) 234-4148 **email:** jajitsaria@globaltechinc.com**EXPERIENCE:**

Global Technology Experts

March 2009-Present

Senior Engineer

**EDUCATION:**

Ph.D. in Mechanical Engineering, Auburn University, Auburn, AL, Dec 2008

M.S., B.S., in Mechanical Engineering, IIT Bombay, India, July 2003

**AREA OF EXPERTISE:**

- Machinery & Equipment Failures
- Repair / Preventive Maintenance
- Product Failure Analysis
- Patent Analysis
- Structural Engineering
- Accident Reconstruction
- Auto Accident Investigation
- Tire Failure
- Electrical Failures
- Batteries, Motors & Generators

**RELEVANT SKILLS:**

- Proficient in Ansys, LabView, and MATLAB.
- Some experience in Mathematica, C, C++, VBA, HTML, Fortran.
- Proficient in Microsoft Word, Excel, Access, and PowerPoint.
- LabView SCXI data acquisition system
- Experimental Test Rig Design
- Dynamics of Machinery
- Measurements and Instrumentation
- Mechanical Failure

**PUBLICATIONS:**

1. Ajitsaria, J., Choe, S-Y., Shen, D., Kim, D-J., —Modeling and Analysis of a Bimorph Piezoelectric Cantilever Beam for Voltage Generation, Smart Mater. Struct. 16 (2007) 447–454.

2. Ajitsaria, J., Choe, S-Y., Shen, D., Kim, D-J., —Modeling Piezoelectric Cantilever Beam for Voltage Generation, Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems, Proc. of SPIE Vol. 6529, 2007.
3. Shen, D., Ajitsaria, J., Choe, S-Y., Kim, D-J., —The Optimal Design and Analysis of Piezoelectric Cantilever Beams for Power Generation Devices, Mater. Res. Soc. Symp. Proc. Vol. 888, 2006 Materials Research Society.
4. Shen, D., Park, J-H., Ajitsaria, J., Choe, S-Y., Wickle, H. C., Kim, D-J., The Design, Fabrication and Evaluation of a MEMS PZT Cantilever with an Integrated Si Proof Mass for Vibration Energy Harvesting, J. Micromech. Microeng. 18 No 5 (May 2008) 055017 (7pp).
5. Shen, D., Ajitsaria, J., Lee, J-G., Choe, S-Y., Kim, D-J., —Comparative Study of Piezoelectric Materials for Power Scavenger, Materials Science and Technology (MS&T), 2006.
6. D. Shen, J. Ajitsaria, S.-Y. Choe, and D.-J. Kim, —Evaluation and Modeling of Power Generator with Bimorph PZT Cantilever, Proceeding of Materials Research Society Symposium, Vol. 966 (2007) 0966-T07-29.
7. D.-J. Kim, J.-H. Park, D. Shen, J. Ajitsaria, and S.-Y. Choe, —PZT-based MEMS Devices for Vibration Energy Harvesting, Proceedings of the 17th International Symposium on the Applications of Ferroelectrics and 2008 Meeting of the Electronics Division of the American Ceramic Society (2008) EH004.

**PROFESSIONAL MEMBERSHIPS:**

2007- Present: SAE, ASME, SPIE, IEEE.