

CURRENT ADDRESS
1203 I. NORTH MAIN ST.
BLACKSBURG, VA 24060

JOHN PAUL HELVESTON
john.helveston@gmail.com
<http://www.jhelvy.com>

PERMANENT ADDRESS
214 SUMMERHOUSE LANE
CARROLLTON, VA 23314

Education

- ◆ **B.S. in Engineering Science and Mechanics** GPA: 3.96/4.0 May 2010
VIRGINIA TECH **BLACKSBURG, VA (USA)**
Minors: Asian Area Studies (Chinese concentration), Music (Violin Performance), Mathematics
Relevant coursework: *Sustainable Energy Solutions, Microeconomic Theory, Statistical Methods, Fundamentals of Thermodynamics, Vibrations & Controls, Applied Fluid Mechanics, Mechanical Behavior of Materials, Finite Element Analysis, Engineering Economy, Modern History of China, History & Analysis of Musical Styles.*
- ◆ **HEILONGJIANG UNIVERSITY** **HARBIN, CHINA**
Intensive Chinese Program (Department of State Critical Language Scholarship) Summer 2009
- ◆ **LIAONING NORMAL UNIVERSITY** **DALIAN, CHINA**
Independent Intensive Chinese Study (Horton Honors Scholarship) Summer 2008

Experience

- ◆ **GENERAL ELECTRIC COMPANY** **SHANGHAI, CHINA**
Wind Power ATO Intern: Wrote testing framework for wind turbine cost assessment tool. Served as English communication assistant to Chinese coworkers. Fall 2008
- ◆ **GENERAL ELECTRIC COMPANY** **GREENVILLE, SOUTH CAROLINA (USA)**
Wind Power ATO Intern: Built aero-acoustic noise prediction model for wind turbine blade noise used in wind turbine cost assessment tool. Summer 2007
Conducted competitive assessment on competitor wind turbine designs and technology.

Academic

- ◆ **Senior Design Project:** Working in student team of 3 to design and build a passive cooling system for power electronics used to mitigate electric grid fluctuations. 2009-Present
- ◆ **Undergraduate Research:** Conducted stress relaxation tests in a temperature and humidity controlled environment to study PEM fuel cell membrane properties. Spring 2007
- ◆ **Space Elevator Design Team:** Designed support frame using CAD software for a senior design team project. Spring 2006

Leadership

- ◆ **Solely Swing Dance Club:** Dance Instructor, Deejay, Event Coordinator, Webmaster (<http://www.swingin.org.vt.edu>). 2007 - Present
- ◆ **New River Valley Symphony:** 1st Violin Section, 1st Stand. August 2005 – Present
- ◆ **First Year Excellence Seminar:** Assisted and advising 8 honors freshmen students in a seminar focused on self examination and achieving excellence. Fall 2009
- ◆ **Engineering Leadership Network:** Addressed technology leadership development and innovation with a select group of student engineers. Fall 2006 – 2008

Community / Volunteer Activities

- ◆ VT Alternative Breaks Service Programs (*service trips with Tau Beta Pi, Appalachia Service Project, and Presbyterian Campus Ministries*) 2006, 2007, 2009

Honors & Awards

- ◆ 2009 recipient of the Department of State Critical Language Scholarship for Mandarin Chinese.
- ◆ 2007 recipient of the Horton Honors Scholarship to fully fund a 6 month international experience in China (\$10,000 – Carried out Summer & Fall 2008).
- ◆ Awarded Eleanor Davenport Leadership Scholarship (\$24,000), in addition to scholarships from VT Alumni Association and Pamplin College.
- ◆ Eagle Scout Award – BSA Troop 11, Valrico, Florida (July 7, 2002).

Skills

Language Conversational in Mandarin Chinese.
Computer Microsoft Office, MatLab, Mathematica, Autodesk Inventor (similar to Solid Edge), HTML, CSS, PHP, Wordpress, Adobe Software (Photoshop, Illustrator, Premiere).