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**JOHN PAUL HELVESTON**

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**ADDRESS**

214 SUMMERHOUSE LANE  
 CARROLLTON, VA 23314

**Education**

- ◆ **B.S. in Engineering Science and Mechanics** GPA: 3.95/4.0 May 2010  
**VIRGINIA TECH** **BLACKSBURG, VA**  
 Minors: Asian Area Studies (Chinese concentration), Music (Violin Performance)  
 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**

- ◆ **BACK COUNTRY DRIVING SCHOOL** **LIVINGSTON, MONTANA**  
**Off-road driving instructor:** Drove and maintained fleet of H1 Hummers. Summer 2010  
 Taught off-road driving techniques to ranch guests.
- ◆ **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**  
**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. 2009-2010
- ◆ **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 - 2010
- ◆ **New River Valley Symphony:** 1<sup>st</sup> Violin Section, 1<sup>st</sup> Stand. August 2005 – May 2010
- ◆ **First Year Excellence Seminar:** Assisted and advising 8 honors freshmen students in a seminar focused on self examination and achieving excellence. Fall 2009

**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**

- ◆ 2010-2011 recipient of the Taiwanese Government Huayu Mandarin Enrichment Scholarship.
- ◆ 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 for VT tuition and fees (\$24,000)
- ◆ Eagle Scout Award – BSA Troop 11, Valrico, Florida (July 7, 2002).

**Skills**

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