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JOHN PAUL HELVESTON

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ADDRESS

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Education

- ◆ **Ph.D., Engineering and Public Policy**
CARNEGIE MELLON UNIVERSITY
Pittsburgh, PA
May 2015
- ◆ **B.S., Engineering Science and Mechanics**
VIRGINIA TECH
Blacksburg, VA
May 2010
GPA: 3.95/4.0
Minors: Asian Area Studies (Chinese concentration), Music (Violin Performance)
- ◆ **NATIONAL TAIWAN UNIVERSITY, Chinese Language Division**
Business Chinese (Huayu Mandarin Enrichment Scholarship)
Taipei, TAIWAN
Winter 2010-2011
- ◆ **HEILONGJIANG UNIVERSITY**
Intensive Chinese Program (Department of State Critical Language Scholarship)
Harbin, CHINA
Summer 2009
- ◆ **LIAONING NORMAL UNIVERSITY**
Independent Intensive Chinese Study (Horton Honors Scholarship)
Dalian, CHINA
Summer 2008

Experience

- ◆ **INNOVATION CENTER for ENERGY & TRANSPORTATION (ICET)**
Beijing, CHINA
Intern: Analyzed electric car road-mapping in China and associated GHG emissions.
Spring, 2011
- ◆ **GENERAL ELECTRIC COMPANY**
Shanghai, CHINA
Wind Power ATO Intern: Wrote testing framework for wind turbine cost assessment tool; conducted competitive assessment; English language assistant.
Fall 2008
- ◆ **GENERAL ELECTRIC COMPANY**
Greenville, SC
Wind Power ATO Intern: Built aero-acoustic noise prediction model for wind turbine blade noise used in wind turbine cost assessment tool. Conducted competitive assessment on competitor wind turbine designs and technology.
Summer 2007

Academic

- ◆ **Senior Design Project:** Designed, built, and tested a passive cooling system for power electronics used to mitigate electric grid fluctuations. Project manager.
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 involving a space elevator concept design.
Spring 2006

Leadership

- ◆ **First Year Excellence Seminar:** Course instructor, advised freshmen honors students in a seminar focused on self examination.
Fall 2009
- ◆ **Solely Swing Dance Club:** Dance Instructor, Deejay, Event Coordinator, Webmaster (<http://www.swingin.org.vt.edu>).
2007 – May 2010
- ◆ **New River Valley Symphony:** 1st Violin Section, 1st Stand.
August 2005 – May 2010

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

- ◆ 2011 – 2012 NSEP Boren Fellowship Award (Declined).
- ◆ 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).
- ◆ Member of Tau Beta Pi (inducted December 6, 2006) & Phi Beta Kappa (inducted May 14, 2010).
- ◆ Awarded Eleanor Davenport Leadership Scholarship for VT tuition and fees (\$24,000).
- ◆ 1st Place in Open Strictly Lindy Hop Competition – 2011 International Lindy Hop Championship.
- ◆ Eagle Scout Award – BSA Troop 11, Valrico, Florida (July 7, 2002).

Skills

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