

# William N. Pollard, Jr.

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## EDUCATION

- Texas A&M University (TAMU)** – College Station, TX August 2013  
(Ph.D.) Mechanical Engineering  
Focus of study: Thermal-fluids; Plasma physics; Energy generation/optimization  
Dissertation: Untitled  
**Cumulative GPA: 3.6**
- Virginia Polytechnic Institute (VT)** – Blacksburg, VA December 2009  
(M.S.) Mechanical Engineering  
Focus of study: Thermal-fluids/Energy generation with a focus on nuclear systems  
Thesis: “Non-contact temperature measurement on a steel plate in a TIG welding process”  
**Cumulative GPA: 3.8**
- James Madison University (JMU)** – Harrisonburg, VA May 2002  
(B.S.) Bachelor of Science, *magna cum laude*  
*Double Major:* Integrated Science & Technology (ISAT) and Psychology (PSYC)  
*Double Minor:* Business and Statistics  
Thesis: “Infrared temperature measurement of 1-mil Kapton membrane using a cold plate”

## RELEVANT EXPERIENCE

- TEXAS A&M UNIVERSITY – College Station, TX** August 2009 – Present  
*Graduate Research/Teaching Assistant*
- Designed, constructed and conducted research on a low pressure/high voltage system for DPF research
  - Designed, constructed and conducted research on plasma actuator for airfoil boundary layer reattachment
  - Volunteered work with Industrial Assessment Center - recommended total savings of \$60,000/yr to various Texas businesses
  - Instructed three sections of a fluid mechanics lab as lead instructor
  - Performed all administrative/teaching responsibilities for several different engineering classes of 100+ students each
- VIRGINIA TECH – Blacksburg, VA** January 2007 – December 2009  
*Graduate Research/Teaching Assistant*
- Designed, constructed and characterized an automated infrared temperature measurement system for a TIG welding process
  - Lead instructor of a senior level mechanical engineering laboratory class
  - Mentored one undergraduate student for two months as part of the NSF-REU program
  - Assisted in organizing meetings and obtaining guest speakers for VT-American Nuclear Society (VT-ANS)
  - Volunteered at VT steam plant for three months and performed volunteer assistance for various department activities
- EARTH TECH, INC. – Richmond, VA** April 2006 – December 2006  
*Chemical Technician II*
- Sampled, analyzed and monitored various environmental remediation systems in US EPA’s Region II
  - Troubleshoot and enhanced remediation systems and monitoring equipment
  - Generated reports for sampling and monitoring events
  - Communicated data analysis to clients and team members and maintained communication with NY state regulatory agencies
- MANPOWER – Richmond, VA** June 2005 – March 2006  
*Project Coordinator, IBM*
- Project Management
  - Coordinated and managed 100+ field techs in fast-paced and dynamic project environment for Circuit City
  - Organized complex projects ranging in scope from a single to 600+ locations
  - Communicated within and between multi-tiered organizations

## **WORK EXPERIENCE**

**SABBATICAL** – Independent travel in Asia

September 2004 – April 2005

**CHEONGSONG ACADEMY – Seoul, South Korea**

September 2002 – September 2004

*Language Instructor*

- Directed and scheduled foreign instructor staff of 2 teachers
- Ensured standards of quality were met and maintained for 25+ classes
- Responsible for instructing 250+ elementary and middle school children in conversational English
- Initiated and developed an improved curriculum that helped increase enrollment by 17%
- Restructured curriculum to provide a monthly net savings of 2.2 million won

**MANPOWER – Richmond, VA**

May 2002 – September 2002

*Administrative Assistant, Virginia Department of Social Services*

- Responsible for the preliminary evaluation of the quality of both private and religious child care facilities
- Managed comprehensive database of 500+ clients
- Maintained professional working relationships with 50 clients
- Organized and prepared detailed informational packages for potential clients

**JAMES MADISON UNIVERSITY – Harrisonburg, VA**

June 2001 – May 2002

*NSF Funded Researcher*

- Analyzed and tested the performance of a two color F-O/IR detector on relatively low temperature thin film targets
- Collaborated with NASA Langley Research Center
- Designed and machined custom parts for experimental set-up
- Presented results of study at ThermoSense annual conference in Orlando

## **COMPUTER SKILLS**

MS Office	LabVIEW	MATLAB	Solid Works	Octave
Mathematica	SPSS	SAS	EES	JMP IN
COMSOL	MultiSim	Windows	Linux	

**HONORS:** Merit Fellowship recipient (2009), RH Fletcher Fellowship recipient (2009), Diversity Fellowship recipient (2009), Secretary of Psychology Honor Society (1998), ISAT Honor Society, Omicron Delta Chi Leadership Honor Society, Golden Key National Honor Society, Mortar Board

**INTERESTS:** Camping, Computers, Finance, Traveling, Snowboarding, Languages, Scuba diving, Music, Science

**PUBLICATIONS:** Pollard, W.N., B. Hannas, 2002, "Noncontact temperature measurement of aluminized polymer for space application," *An International Conference on Thermal Infrared Sensing for Diagnostics and Control* (Thermosense XXIV), SPIE, Orlando, Florida.

Rogers, S. and Pollard, W. (1998). "Perceived size and distance in real scenes and in photographs." Abstracts of the Psychonomic Society. vol. 3, p. 59.