

William N. Pollard, Jr.

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EDUCATION

James Madison University (JMU) – Harrisonburg, VA

(B.S.) Bachelor of Science, 2002, *magna cum laude*

Double Major: Integrated Science & Technology (ISAT) and Psychology (PSYC)

Thesis: “Infrared Temperature Measurement of 1-mil Kapton Membrane Using a Cold Plate”

Double Minor: Business and Statistics

Virginia Polytechnic Institute (VT) – Blacksburg, VA

(M.S.) Mechanical Engineering, 2009

Focus of study: Thermal-fluids/Power generation with a focus on nuclear systems

Thesis: “Non-contact temperature measurement on a steel plate in a TIG welding process”

Cumulative GPA: 3.81

PROFESSIONAL EXPERIENCE

VIRGINIA TECH – Blacksburg, VA

August 2007 – July 2009

Graduate Research/Teaching Assistant

- Designed, constructed and characterized an automated infrared temperature measurement system for a TIG welding process
- Led one section of a 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
- Volunteered assistance for department activities

EARTH TECH, INC. – Richmond, VA

April 2006 – December 2006

Chemical Technician II

- Sampled and monitored various environmental remediation systems in US EPA’s Region II
- Assisted in coordinating team efforts for site specific events
- Troubleshoot and enhanced remediation systems and procedural concerns
- Analyzed, organized and manipulated both historical and current data from sampling and monitoring events
- Generated reports and kept field notes for sampling and monitoring events
- Communicated data analysis to clients and team members and maintained communication with NY state regulatory agencies
- Executed 2 SVE pilot studies for system effectiveness in Little Valley, NY
- Performed a 72 hour aquifer draw down test
- Carried out low-flow well sampling at sites containing 20+ wells

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
- Multitask complex projects ranging in scope from a single to 600+ locations
- Collaborated with multiple specialized teams to ensure site readiness
- Developed an organizational tool to closely monitor progress on all projects
- Responsible for communications within and between multi-tiered organizations

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

UNDERGRADUATE RESEARCH – Harrisonburg, VA

June 2001 – May 2002

NSF Funded Researcher

- Optimized, characterized and calibrated a fiber-optic infrared temperature measurement system for use on thin film polymers
- Analyzed and tested the performance of a two color F-O/IR detector on relatively low temperature targets
- Collaborated with scientists at 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 Edge	Octave
Mathematica	SPSS	SAS	Fluent	JMP IN
		EES		

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

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

AFFILIATIONS: American Nuclear Society, American Society of Mechanical Engineers

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.