

Curriculum Vitae of Peter J. Dailey

Personal Information

Peter Joseph Dailey
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Born: Peoria, Illinois, United States of America

Work Experience

- present – 05/2003 Rahall Appalachian Transportation Institute
Research Associate, Huntington, West Virginia
Management responsibilities for the Railroad Safety and Operations Center of Excellence (RailSORCE). Research project management responsibilities involve review of literature, equipment selection, design of experiments, directing field work, data collection, and analysis using a variety of engineering and geographic information system software.
- Developed an automated Commercial Driver License skills test from the project outline provided by the West Virginia Division of Motor Vehicles. Managed the development and implementation of CDL skills test and results monitoring. Principal Investigator of the project April 2005 through deployment June 2006. Commendation letter from Federal Motor Carrier Safety Administration administrator. Project awarded a 2009 Council of State Governments southern division *Innovations* award.
- 2006 – 2008 Orange Cone Software LLC
Managing Member, Charleston, West Virginia
Established a transportation engineering software business focused on automated driver skill testing. Devel-

	<p>oped a testing system for a target hand held Windows CE device automating the administering of motorcycle skill testing.</p>
2007 – 2004	<p>Marshall University Adjunct Professor, Huntington, West Virginia Instructed graduate level classes in Technology Management: <i>Innovation and Technology Management</i>, <i>Technology Planning</i>; developed course outline and instructed <i>Computer Aided Manufacturing</i> combining elements of machining and assembly, chemical engineering, reverse engineering, and CAD; undergraduate engineering <i>Introduction to Geomatics</i>. Developed web content on electronic educational support systems <i>Blackboard</i>, <i>Vista</i>, and <i>WebCT</i> for all courses.</p>
2003 – 2000	<p>Torpedo Solutions LLC Charleston, West Virginia, Managing Member Established an information technology service focused on design, implementation, and administration of thin-client computer networks.</p>
2000	<p>McJunkin Process Automation and Control Technical Specialist, Charleston, West Virginia. Technical support for Valtek final control elements.</p>
2000 – 1997	<p>Equipment & Controls, Inc., Pittsburgh, Pennsylvania Account Manager, Charleston, West Virginia Engineered product offerings included Control Systems, Engineering Services, and final control elements.</p>
1997 – 1995	<p>A. Blair Powell Company, Inc., Pittsburgh, Pennsylvania Sales Engineer, Charleston, West Virginia Engineered product offerings included final control elements, and pressure relief devices. Equipment specifications to ensure compliance with Federal and State safety and environmental laws, particularly in the management of hazardous materials.</p>
1987 – 1985	<p>G&W Industrial Sales Sales Engineer, South Charleston, West Virginia</p>

Engineered product offerings included waste treatment systems, fluids and solids mixers, pressure relief devices, and heat transfer equipment.

1985 – 1981 Atlas Powder Company
Technical Representative, Tamaqua, Pennsylvania; Evansville, Indiana; Gillette, Wyoming
Developed computational applications and high speed photography analytics for engineering research into the use of explosives. Provided technical, safety, application and sales support for product distributors and customers.

Education

present West Virginia University, Civil Engineering Ph.D. with a concentration in Transportation Engineering. Research focus on the application of Real Time Kinematic Global Navigation Satellite Systems in railway measurement, law school coursework in patent claims writing.

2003 Marshall University, Master of Science in Technology Management with an Environmental Science emphasis.
2003 University Transportation Center student of the year award.

1981 West Virginia University, Bachelor of Science in Engineering of Mines with an emphasis in Surface Mining.

Professional Education

2007 Motor Carrier Safety, Transportation Research Board, Washington, D.C. Research Topics for the Rail Industry, Transportation Research Board, Washington, D.C.
2005

2004 Intellectual Property Law Seminar, Dinsmore & Shohl Law Firm

2004 American Society of Civil Engineers (ASCE) Los Angeles California

2003 American Railway Engineering and Maintenance of Way

	Association (AREMA), Chicago Illinois
2003	Symposium on the Application of Geophysics to Engineering and Environmental Problems, San Antonio Texas
1/2006,03,02,01	Transportation Research Board national meeting
2002	United States Army Corps of Engineers Geophysical Logging Seminar
2002	West Virginia Department of Emergency Services Weapons of Mass Destruction Workshop, Charleston West Virginia
2002	West Virginia Coal Association Water Workshop

Licenses and Certifications

1997	FCC Extra Class amateur radio license, call sign <i>KN0BY</i> .
1983	1983 Wyoming blasters permit.
1984	West Virginia shot firers certificate.
1989	Professional Association of Diving Instructors, Dive Master certification.
1982,83	FAA private pilot license, single engine land and glider ratings.

Expert Witness

2007	Plaintiffs expert for examination by physical inspection and mechanical disassembly of an electro-mechanical device.
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Book Reviews

2004	<i>Strategic Management of Technological Innovation</i> , Schilling, M., 2005, McGraw-Hill. Contracted by McGraw-Hill for review of first edition.
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Masters Degree Committee Member

2005	Juan Bueno, MS Information Technology, Marshall University
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2006 Luke Bess, MS Technology Management, Marshall University

Invited Presentations

- 01/2009 *Automatic Classification Yard Surveying with RTK GPS During Revenue Operations*, Society of American Military Engineers, Huntington West Virginia
- 06/2009 *From Paper Cuts to Payoffs: West Virginias Approach to CDL Skills Testing*, American Association of Automobile Administrators (AAMVA) Region II Conference, Ponte Verde Florida
- 10/2005 *Benefits Of High Accuracy GPS Applications To The Minerals Industry*, Conference on Computer Use in the Minerals Industry, Banff Canada
- 10/2005 *Rapid Surveying of a Classification Yard*, the American Railway Engineering and Maintenance of Way Association (AREMA), Chicago Illinois
- 07/2004 *Using Geophysical Techniques to Study Rail in An Area of Ground Movement*, presented to Geo-Institute Conference on Geotechnical Engineering for Transportation Projects (ASCE), Los Angeles California
- 10/2003 *Application of High Accuracy Differential GPS*, co-presentation with Dr. Anthony Szwilski, National meeting the American Railway Engineering and Maintenance of Way Association (AREMA), Chicago Illinois
- 04/2003 *Application of Geophysical Methods to Evaluate Rail Track Subsurface*, presented to the Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP), San Antonio Texas
- 11/2003 *High Accuracy Differential GPS* presented to the Parkersburg-Marietta chapter of the Instrumentation, Systems and Automation Society (ISA), Parkersburg West Virginia
- 1998 *Digital Instrumentation Communications: Highway Addressable Remote Transmitter (HART) Applications*, Pitts-

burgh Pennsylvania

- 1998 *Valtek and Fisher: a Perspective*, presented at the Fisher Controls national sales meeting, Innisbrook Resort, Tarpon Springs, Florida

Publications

- 6/2006 *Employing High Accuracy DGPS to Monitor Track Shift*, Szwilski, A.B., Lees, H.M., Begley, R., Dailey, P., Sheng, Z., 7th World Congress on Railway Research, Montreal, (June 7, 2006)
- 6/2005 *Employing HADGPS to Survey Track and Monitor Movement at Curves*, Szwilski, A.B., Dailey, P., Sheng, Z., Begley, R.D., Railway Engineering: 8th International Conference and Exhibition, London (June 2005).
- Conference award for *Best Paper by a University Researcher*.
- 10/2005 *Benefits Of High Accuracy GPS Applications To The Minerals Industry*, Proceedings: Conference on Computer Use in the Minerals Industry, Dailey, P., Szwilski, A., Begley, R., Banff Canada
- 10/2005 *Rapid Surveying of a Classification Yard Employing High Accuracy DGPS (RTK)*, Szwilski, A.B., Kerchof, W.B., Tomlin, J., Dailey, P., Sheng, Z., the American Railway Engineering and Maintenance of Way Association (AREMA), conference proceedings, Chicago
- 10/2003 *Determining Rail Movement Trajectories and Alignment Using HADGPS*, A. Szwilski, R. Begley, P. Dailey, Z. Sheng the American Railway Engineering and Maintenance of Way Association (AREMA), conference proceedings
- 2003 *Multi-sensor Mobile System to Monitor Track Superstructure and Substructure: Initial Studies with Non-Invasive Technologies*, A. Szwilski, R. Begley, J. Ball, P. Dailey, American Railway Engineering and Maintenance-

of-Way Association (AREMA) Conference

- 2003 *Application of Geophysical Methods to Evaluate Rail Track Subsurface*, Proceedings: Symposium on the Application of Geophysics to Engineering and Environmental Problems, R. Begley, A. Szwilski, J. Ball, P. Dailey
- 1985 Handbook of Electrical Blasting, Atlas Powder Company, Contributor/editor
- 1983 *High-speed Photography in Blasting Safety and Design*, Chiappetta, R.F., Bauer, A., Dailey, P., Burchell, S., published by Mining Resource Engineering Limited
- 1983 *The Use of High-Speed Motion Picture Photography in Blast Evaluation and Design*, Proceedings 9th Annual Conferences on Explosives & Blasting Technique, Society of Explosive Engineers, Dallas, TX and published in World Mining Equipment magazine, Chiappetta, R.F., Bauer, A., Dailey, P., Burchell, S.

Charleston, West Virginia, USA, May 30, 2010