A. Daniel Pennebacker

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EDUCATION

Candidate of Doctor of Philosophy, Teaching, Learning and Technology
School of Education, Lehigh University
Expected Graduation Spring 2017

2013-Present
Bethlehem, PA

- Proposed Dissertation: *District Computer Science Service Application: A Quantitative and Qualitative Investigation of High School Computer Science Students Creating Learning Environments for the Consumption of Middle School Student Learning*

Master of Science, *cum laude*, Gwynedd Mercy University

2009-2012
Gwynedd, PA

- Certification: Business, Computer, and Information Technology
- Thesis: An Action Research Approach on the Implementation of iPads Utilizing Interactive Multimedia
- Graduate Assistant: Assisted Dean of Education in admission duties and attracting dual credit authorization in surrounding school districts

Bachelor of Business Administration, Temple University

2004-2008
Philadelphia, PA

- Major: Accounting

PROFESSIONAL EXPERIENCE

Higher Education

College of Education, Gwynedd Mercy University
Adjunct Online Professor,
Master Teacher Program

2014-Present
Gwynedd, PA

Courses taught:
- EDU 508, "Secondary School Methods and Materials": Revised syllabus and assignment list to reflect an emphasis on purposeful technology integration, moved course curriculum to asynchronous format utilizing BlackBoard platform.
- EDU 603, "Capstone/Culminating Project": Conducted courses in adherence with research process as allocated throughout Master Teacher Program and assisted students in action research.

K-12

Perkiomen Valley High School
Taught AP Computer Science A, Web Design, Microsoft Office Certification, Honors Principles of Computer Science. Served as district Mac OSX IT Administrator managing 192 machines.
Founded High School Ski and Board Club, organized and implemented multiple trips throughout Utah, Vermont, New York, Vermont and Pennsylvania.
Founded High School Computer Club and organized district-wide event for Hour of Code. Served as member of the Curriculum and Advisory Committee

2011-Present
Collegeville, PA

and the Technology and Advisory Committee. Coached Middle School Boys Soccer. Conducted staff training in Google Applications, computer science, Learning Management Systems and outdoor rock climbing.

Upper Dublin High School
2011
Upper Dublin, PA

Taught Accounting, Marketing and Introduction to Business.

Outdoor Education

Doylestown Rock Gym
2013 – 2015
Doylestown, PA

Acted as lead guide instructing staff and clients on various levels of rock climbing courses.

Eastern Mountain Sports
2007 – 2013
Warrington, PA

Instructed rock climbing courses from novice to expert climbers. Managed groups up to 30 people on steep terrain adhering to industry standard safety practices.

National Outdoor Leadership School
2010
Lander, WY

Instructed students in backcountry expedition leadership and survival skills. Taught climbing specific curriculum including multipitch climbing, anchors, self-rescue and mountaineering.

Accounting

Gable, Peritz and Mishkin, LLP
2008 – 2009
Spring House, PA

Staff accountant assisting partners and clients in financial planning, tax preparation and litigation, and auditing services.

AWARDS

School Board Recognition, 2013
Organization of Hour of Code
Perkiomen Valley School District, Collegeville, PA

PUBLICATIONS

Thesis

Pennebacker, A. D. (2012). An action research approach on the implementation of iPads utilizing interactive multimedia. Gwynedd Valley, PA: Gwynedd-Mercy College.

Websites

www.thesis.dpadventure.com

www.lehigh.dpsites.com

GRANTS

Augmented Reality Geometry, Lehigh University, 2013 - 2014
"Developing a Mobile Game for Research and Practice in Teaching":
Received $4,200 compensation to create an iPad game using Stencyl. The

game was programmed to be launched on an iOS device to educate special education students in concepts of geometry.

Project PEAK, Lehigh University 2014, 2015
Received competitive $26,000 compensation to develop digital learning experience. Participants progressed through SCORM learning experience controlled through Moodle LMS. The purpose of PEAK is to develop and evaluate an online early intervention family education program. PEAK is designed to target the issues of young children (age 3-5) exhibiting early behavioral symptoms of attention-deficit/ hyperactivity disorder (ADHD) by teaching parents and caregivers behavior management strategies and supportive practices over the course of a ten-week program. It is hoped that Project PEAK will lead to the development of a parent education program that is associated with more consistent use of effective behavioral strategies and enhanced parent engagement as well as greater accessibility to diverse families.

CONFERENCE PRESENTATIONS

Conference Presentations

Pennebacker, A. (2015, February). *Integrating iOS development into K-12*. Presented as a Lecture at the Pennsylvania Educational Technology Expo and Conference (PETE&C) annual conference, Hershey, PA.

Pennebacker, A. (2014, October). *K-12 iOS Development, The Process Revealed*. Presented as a Lecture at the Mobile Learning & Teaching Summit, Bethlehem, PA.

Pennebacker, A. (2014, February). *Using Stencyl to teach game design*. Presented as a Lecture at the Pennsylvania Educational Technology Expo and Conference (PETE&C) annual conference, Hershey, PA.

Proposed Presentations

Pennebacker, A. (2016, February). *From Interface to Code: Taking the Mobile App Development Process from Plan to Reality*. Presented as a Lecture at the Pennsylvania Educational Technology Expo and Conference (PETE&C) annual conference, Hershey, PA.

Workshops

Perkiomen Valley High School, Collegeville, PA, May, 2015.
Google Drive and Google Add-ons.
Developed and implemented ½ day workshop for entire teaching staff (approximately 50 teachers, K-12). Exhibited and guided hands-on work with Google Drive and Google Add-ons with Docs, Spreadsheets and Forms.

Perkiomen Valley High School, Collegeville, PA, August, 2014.
Using Google Drive in the Classroom
Developed and implemented ½ day workshop for entire teaching staff (approximately 50 teachers, K-12). Demonstrated practical uses of Google Drive and integrating education best practices.

Perkiomen Valley High School, Collegeville, PA, August, 2013.
Google Sites.

Developed and implemented ½ day workshop for entire teaching staff (approximately 25 teachers, K-12). Demonstrated organization and structures of creating a teacher Google Site. Assisted teachers create online presenence using Google Sites as the medium to integrate Google Apps for Education.

Perkiomen Valley High School, Collegeville, PA, May, 2013.
Rock-climbing Training for Physical Education Department.
Developed and implemented full day workshop for entire Physical Education staff (approximately 8 teachers, K-12). Developed and implemented outdoor climbing course for training teachers on using a district owned indoor rock-climbing wall. Demonstrated best practices on belaying, instruction and overall climbing system.

SERVICE	**Service to K-12 Teachers, Schools, and Students**

Perkiomen Valley High School, Collegeville, PA, December, 2014.
Hour of Code
Developed and implemented night day workshop for entire district community (approximately 300). Coordinated and lectured on importance of Computer Science Education. Administered break out sessions for all ages to write computer code in interactive environments.

Perkiomen Valley High School, Collegeville, PA, August, 2014.
Middle Level Computer Science Education
Presented on Java Concepts and Programming to Middle Level Teachers. Assisted with the development and implementation of computer science curriculum at two middle schools within the district.

CERTIFICATES AND PROFESSONAL ASSOCIATIONS	Certified business, computers and information technology teacher (grades k-12) in PA.

Member and Certified Rock Guide, American Mountain Guiding Association (AMGA).

Certified Wilderness First Responder Wilderness Medicine (SOLO).

Member, International Society for Technology in Education (ISTE).

Member, Association of Computing Machinery (ACM).

Member, Computer Science Teachers Associations (CSTA).

Member, Access Fund.

Member, American Alpine Club.