

## CURRICULUM VITAE

Matthew Meyer, Ph.D., P.E.

4168 N. Jackson Avenue

Ogden, UT 84414

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### EDUCATION & LICENSURE

Utah State University, Logan, UT

*PhD Engineering Education*

Graduated 2015

*M.S. Civil and Environmental Engineering* – Water and Wastewater Treatment Emphasis,

Graduated 1996

*B.S. Civil and Environmental Engineering*

Graduated 1995

Licensed as a *Professional Engineer* in Utah, Colorado, Florida, and California

USDA Farm Energy Auditor

*Master Trainer Certification* with the National Center for Construction Education and Research (NCCER)

Licensed building contractor and water treatment/distribution operator in Utah

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### TEACHING EXPERIENCE

*Instructor, Weber State University*, College of Engineering, Applied Science and Technology, Ogden, UT, 2017-P

- Instructed Green Building Science course and consulted on design of “tiny home” project to highlight sustainable building design.
- Acted as Judge for students’ senior projects designing a civic center for an African village.

*Instructor, Salt Lake Community College*, State Energy Sector Partnership (SESP) Grant, Sandy, UT, 2010-2015

- As part of U.S. Department of Labor and Utah Department of Workforce Services training grant, developed curriculum and taught building science, green building, building and the environment, LEED building, weatherization, and green retrofitting.
- Instructor of Green Retrofit and HERS training courses in both traditional and online format. This was offered as an add-on to the building science class. Students were trained both in the classroom and the field to gain a Home Energy Rating (HERS) Certificate that the student can use to start a business. The field training involved meeting with groups of students at residential building sites and conducting training in field testing techniques.
- Presented at Utah Building Energy Efficiency Strategies (UBEES) Morningside Training program. Instructed builders, inspectors, and code officials on 2006 IECC Code Compliance using the Performance Method.

- Recorded builder continuing education modules as part of Salt Lake Community College's remote builder education series.
- Took lead role in PNNL 2006 IECC Code Compliance Study for Utah including presentation of results to State of Utah Office of Energy Development.
- Achieved Master Trainer certification through the National Center for Construction Education and Research (NCCER).

## RESEARCH EXPERIENCE AND PUBLICATIONS

- Meyer, M., & Fang, N. (2016). Factors Affecting Persistence of Undergraduate Engineering Students: A Quantitative Research Study Using Institutional Data. *INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION*, 32(5), 1879-1887.
- Meyer, Matthew, "Persistence of Engineering Undergraduates at a Public Research University" (2015). All Graduate Theses and Dissertations. Paper 4261.  
<http://digitalcommons.usu.edu/etd/4261>
- Meyer, M. and Marx, S. (2014), Engineering Dropouts: A Qualitative Examination of Why Undergraduates Leave Engineering. *Journal of Engineering Education*, 103: 525–548.  
doi: 10.1002/jee.20054
- Meyer, M., Marx, S. (2014), How an Excited Student Became a “Washout”, *ASEE PRISM*.  
<http://www.asee-prism.org/jee-selects-jan-2/>
- Master's Graduate Student, Environmental Engineering Department, Utah State University, Logan, UT, 1995-6.
- Master's thesis (1996) entitled, “Toluene Removal Using a Fluidized Bed Bioreactor.”

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## PROFESSIONAL EXPERIENCE

**Palmer Engineering and Forensics**, Forensic Engineering Consulting Company, *North Salt Lake, UT, 2014-P. Senior Civil Engineer*

- Inspected, investigated, and formed expert opinions on engineering-related damage claims and legal actions.

**American Water**, Water and Sewer Utility, *Hill Air Force Base, UT, 2014-P General Manager/Capital Manager*

- Managed an 20 person water utility crew to operate/rehabilitate water and sewer infrastructure at Hill Air Force Base
- Performed capital planning and project management for a 50 year operation and maintenance contract.
- Negotiated for new infrastructure projects with Hill AFB and DLA.

**Meyer Design and Engineering**, *Ogden, UT, 1996-P. Managing Partner*

- Managed energy efficient design, testing, and construction firm.
  - Developed over 1,000,000 sf of commercial real estate space.
  - Designed and entitled over 1800 residential building lots. Managed the construction of nearly 500 building lots.
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## **AWARDS AND AFFILIATIONS**

- Utility Management Certification with the Rural Water Users Association of Utah.
  - Master Trainer Certification with the National Center for Construction Education and Research (NCCER)
  - LEED Accredited Professional with a Building Design + Construction Specialty
  - Award of excellence for level of participation in the Utah Home Performance program under USEPA's Energy Star program, 2012.
  - Energy Champion award from Utah Clean Energy, 2012.
  - Member of Utah Home Performance Partner Advisory Council.
  - Member of IECC Uniform Building Code Commission Ad Hoc committee.
  - Member of IECC Analysis Working Group Committee.
  - Member of Wasatch Division of Utah Home Builder's Association.
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## **PROFESSIONAL REFERENCES**

- John Palmer, PhD, Professor, University of Utah, Department of Electrical Engineering, Email: [jpalmer@pe4n6.com](mailto:jpalmer@pe4n6.com)
- Chris Hailey, PhD, P.E., Dean of Engineering, Utah State University. Email: [chris.hailey@usu.edu](mailto:chris.hailey@usu.edu)
- Sherry Marx, PhD, Associate Professor & ESL Program Coordinator, School of Teacher Education and Leadership. Email: [smarx@usu.edu](mailto:smarx@usu.edu)
- Ning Fang, PhD, Associate Professor, Utah State University, Department of Engineering Education, Email: [ning.fang@usu.edu](mailto:ning.fang@usu.edu)