



ELIZABETH BALKE, P.E.

MECHANICAL ENGINEER

Elizabeth Balke is a mechanical engineer at Taylor Engineering with a B.S. in Mechanical Engineering from the University of Minnesota – Twin Cities and a M.S. in Mechanical Engineering from the University of Wisconsin – Madison.

During graduate school Ms. Balke researched zero net energy homes. She developed and validated a detailed model of the National Institute of Standards and Technology Net Zero Energy Residential Test Facility, which she then used to evaluate various system configurations and controls for the house. She presented this research at the ASME 2015 Power & Energy Conference.

Prior to joining Taylor Engineering, Ms. Balke worked as an Energy Engineer at Newcomb Anderson McCormick, where she performed technical analyses to support energy efficiency retrofits, created building energy models for energy savings analyses as well as LEED certification, and managed components of a state-wide community college energy efficiency retrofit program.

At Taylor Engineering, Ms. Balke's responsibilities include HVAC systems design, HVAC control systems design, Revit CAD drafting, building energy modeling, and commissioning.

EDUCATION

B.S. Mechanical Engineering,
University of Minnesota –
Twin Cities, 2014

B.S. Applied Mathematics,
University of Northwestern
St. Paul, 2014

M.S. Mechanical
Engineering, University of
Wisconsin – Madison, 2015

REGISTRATIONS

Mechanical Engineer
California #M39273

AFFILIATIONS

American Society of Heating,
Refrigeration, and Air-
Conditioning Engineers

YEARS OF EXPERIENCE

3 years total

PUBLICATIONS

Balke, Elizabeth C., William M. Healy, and Tania Ullah. "An Assessment of Efficient Water Heating Options for an All-Electric Single-Family Residence in a Mixed-Humid Climate." *Energy and Buildings* 133 (2016): 371-80.