



DAVID HEINZERLING, P.E.

PRINCIPAL

David Heinzerling is a registered mechanical engineer with experience in a wide range of HVAC design project types, including office buildings, laboratories, high-rise residential, commercial kitchens, and cultural buildings. With a background in building science, he also has expertise in many areas of HVAC research and analysis, including indoor environmental quality monitoring, chiller plant optimization, waterside and airside economizer analysis, and life-cycle cost equipment selection. As a curious and knowledgeable web-application developer, Mr. Heinzerling leads Taylor Engineering's BIM standards group and development of in-house design and optimization tools.

Mr. Heinzerling is a specialist in indoor environmental quality monitoring and wireless sensing, with extensive field study experience, largely through his past and continued work with the Center for Built Environment at UC Berkeley. He is also an active voting member on ASHRAE Standard 55 - Thermal Environmental Conditions for Human Occupancy and has given multiple seminars on topics including thermal comfort and building performance monitoring.

A former high school math and environmental science educator and IT administrator, Mr. Heinzerling brings a broad perspective to his work and relationships. He received his bachelor's degrees from The University of Texas at Austin and master's degree from the University of California, Berkeley.

EDUCATION

B.S. Civil Engineering, B.A. Plan II, The University of Texas at Austin, 2005

M.S. Architecture, Building Science, University of California Berkeley, 2013

REGISTRATIONS

Mechanical Engineer,
California #38064

AFFILIATIONS

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

International Institute for Sustainable Laboratories

YEARS OF EXPERIENCE

7 years total

5 years with Taylor Engineering

SELECTED PUBLICATIONS

A New Design Approach to Museum HVAC Design, co-authored with Steven Taylor, ASHRAE Journal, August 2018

Sunlight and Indoor Thermal Comfort, co-authored with Edward Arens & Gwelen Paliaga, ASHRAE Journal, July 2018

Heinzerling D, Schiavon S, Webster T, Arens E. *Indoor environmental quality assessment models: A literature review and a proposed weighting and classification scheme*. Building and Environment 2013;70:210–22. doi:10.1016/j.buildenv.2013.08.027



TEACHING EXPERIENCE

"HVAC System Design Considerations," instructor. UC Berkeley Extension. Fall 2017.

"Building Energy and Environmental Management," graduate student instructor. Department of Architecture, University of California, Berkeley, CA, Spring 2012.

Algebra, Geometry, Precalculus, AP Statistics, Ceramics, Architecture, Environmental Science, and Sustainable Design, instructor. The Chinquapin School, Highlands, TX, 2005-2010.

PROFESSIONAL ASSOCIATIONS

ASHRAE

Associate Member: 2013-2018; Member: 2018 - Present

Standard 55 Thermal Environmental Conditions for Human Occupancy

Member: 2016 – present

Vice-Chair: 2018 - present

I²SL (International Institute for Sustainable Laboratories)

Member: 2018 – present

Northern California Chapter

Events Co-Chair: 2018 - present

HONORS AND AWARDS

First Place National ASHRAE Technology Award, SFMOMA, 2018

REPRESENTATIVE PROJECTS

Airbnb, 999 Brannan	San Francisco, CA, 115,000 ft ² , Mechanical design
East Palo Alto Youth Music and Arts Center	East Palo Alto, CA, 20,000 ft ² , Mechanical design
Oceanwide Towers	San Francisco, CA, 2,100,000 ft ² , Mechanical design
Workday Headquarters	Pleasanton, CA, 575,000 ft ² , Mechanical design
San Francisco Museum of Modern Art	San Francisco, CA, 486,000 ft ² , Mechanical design
SFMOMA Wattis Theater	San Francisco, CA, 12,000 ft ² , Mechanical design
Dolby Headquarters	San Francisco, CA, 315,000 ft ² , Mechanical design
UCSC Coastal Biology Building	Santa Cruz, CA, 40,000 ft ² , Mechanical design
Nvidia	Santa Clara, CA, Waterside economizer LCCA
BrightBox Technologies	Berkeley, CA, Chiller plant optimization software dev
Genentech K6 Study	South San Francisco, CA, Life-cycle costs analyses
1330 Broadway	Oakland, CA, 300,000 ft ² , Building investigation
EPIC– Radiant Research Project	Berkeley, CA
UCSC Sinsheimer Laboratory	Santa Cruz, CA, Controls retrofit