

ROBERT L. HOWARD

SUMMARY

Building science, sustainable technology, and affordable housing expert skilled in residential new construction and remodeling; green building consulting and home performance contracting; HVAC design and equipment selection; plan review and energy modeling; business development with architects, engineers, builders, remodelers, contractors, distributors, utilities, government agencies, and trade associations; public speaking, presentations, and classroom instruction; Salesforce CRM software and Microsoft Office suite.

EXPERIENCE

President, Howard Building Science, Inc.

March 2006 – Present

- General Contracting and Consulting
- Net Zero Energy Home Construction
- Sustainable, Attainable Housing Development

Lecturer, Appalachian State University

August 2021 – Present

- Building Science courses in the Department of Sustainable Technology and the Built Environment
- Clean energy workshops and extension courses for the Appalachian Energy Center

Mitsubishi Sales Manager, Yandle Witherspoon Supply

May 2020 – August 2021

- Ductless heat pump product management
- Contractor development and training
- Single-family and multifamily new construction sales

Performance Construction Manager, Mitsubishi Electric Trane HVAC

June 2016 – May 2020

- Training and technical support on VRF ductless heat pumps for residential applications
- Business development with architects, engineers, builders, remodelers, contractors, and distributors
- Strategic planning and product development for greater comfort, health, and energy efficiency

Director of Construction, Habitat for Humanity of Catawba Valley

July 2015 – June 2016

- Project management of new home construction including estimating, planning and scheduling
- Built the first DOE Zero Energy Ready Homes in North Carolina
- Received multiple DOE Housing Innovation Awards

Sustainable Building Specialist, Habitat for Humanity International

Aug 2010 – June 2015

- Training and technical assistance for Habitat for Humanity construction staff in the Southeast
- Program management for the Partners in Sustainable Building and Repair Corps grant programs

Trade Ally Service Representative, Wisconsin Energy Conservation Corporation

Jan 2009 – Aug 2010

- Program management for the Duke Energy Smart Saver incentive program
- Recruitment and training of Trade Allies including builders, contractors, and distributors
- Measurement and verification of commercial and residential energy efficient equipment installations

Construction Project Manager, Habitat for Humanity of Catawba Valley

March 2001-Dec 2008

- Built more than fifty ENERGY STAR homes through the Advanced Energy System Vision program
- Built the first Net Zero Energy Home in North Carolina in partnership with Appalachian State University
- Built the winning design from the 2006 North Carolina Sustainable Building Design Competition
- Received an Energy Value Housing Award from the NAHB Research Center

EDUCATION

Appalachian State University Boone, NC

Master of Science in Sustainable Technology, Building Science Concentration, 2021

North Carolina State University Raleigh, NC

Renewable Energy Technologies Diploma, 2013

North Carolina State University Raleigh, NC
Bachelor of Arts in Religious Studies, 1995

CERTIFICATIONS

Residential System Design for Quality Installation, 2016
Air Conditioning Contractors of America

Certified Aging in Place Specialist, 2014
National Association of Home Builders

Master Certified Green Professional, 2012
National Association of Home Builders

PV Entry Level Exam, 2011
North American Board of Certified Energy Practitioners

Envelope Professional, 2011
Building Performance Institute

Building Analyst, 2010
Building Performance Institute

Level One Infrared Thermography for Building Applications, 2010
Energy Conservation Institute

Certified Green Professional, 2008
National Association of Home Builders

Home Energy Rater, 2006
Residential Energy Services Network

Licensed General Contractor, 2004
North Carolina Licensing Board for General Contractors

VOLUNTEER POSITIONS

Energy and Environmental Building Alliance, Board Member (2017-2020)
Habitat for Humanity of Catawba Valley, Board Member (2011-2014; 2022-present)
Home Builders Association of Hickory-Catawba Valley, Board President (2009)
National Green Building Standard Consensus Committee (2015)
North Carolina Building Code Council (2023-present)
North Carolina Building Performance Association, Board Chairman (2014-2016)
Town of Granite Falls, Planning Board Member (2014-present)
Watauga Community Housing Trust, Board Member (2022-present)