

# DAVID K. JACKE

## Dynamics Ecological Design

Site Planning • Landscape Design • Construction • Education • Permaculture

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**PROFESSIONAL GOAL: Design and build beautiful, sustainable, ecologically sound homes, landscapes, farms, and communities using an integrated ecological design process and through holistic ecological design education.**

### HIGHLIGHTS OF QUALIFICATIONS

- M.A., Landscape Design, B.A., Environmental Studies, Permaculture Design Course certificate.
- Effectively integrated client goals and landscape realities in 23 years of design consulting using an orderly, thorough, ecological design process.
- Experienced with town, regional & site planning, and community, farm & residential design.
- Practical skills include building construction, agriculture, forestry, homesteading & landscaping.
- Over 20 years teaching ecological, whole systems approaches to design & planning.
- Primary author of *Edible Forest Gardens*, an award-winning two volume book on ecological garden design.

### DESIGN AND PLANNING EXPERIENCE

**Successfully applied ecological principles to design and planning challenges ranging from regional to residential scales. Examples of this work include:**

#### **Regional and Town Planning:**

- TRUSTEES OF RESERVATIONS AND THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (DEM). Analyzed and assessed state designated Scenic Landscapes and researched strategies for their protection in Bolton, Berlin and Northborough, MA. “Your report is one of the best I have seen on the subject of scenic preservation,” Harry Dodson, ASLA, Mass. DEM.
- RURAL COMMUNITY ACTION PROGRAM, WINCHENDON, MA. Created “Groundwater Reconnaissance” and “Potential Threats to Groundwater” maps for Jaffrey and Rindge, NH and Winchendon, MA as aids in community planning. Taught the process to members of Planning Boards and Conservation Commissions in eight towns in three watersheds the following year.

#### **Site Planning:**

- URSULINE PROVINCIALATE, BEACON, NY. Completed a thorough site analysis & assessment followed by a schematic land use plan for a 123 acre former novitiate. The land’s location at the edge of urban and wild areas with both sacred and secular characteristics gives the Order a chance to embody their Mission in new ways for the next century. The project inspired the Order to rethink their Mission in relation to this piece of land, and offered hope for the future of the organization.
- ROSENMILLER FARM, YORK, PA. Played a key role in determining the basic framework of the first major open space development in York County on this 200 acre farm. Collaborated with Landscape Architects; analyzed and assessed site; planned farming uses; consulted on townhouse cluster and recreation area designs; monitored and inspected conservation easements, and; monitored construction compliance with development plans. Total project budget: approximately \$12 million.
- BUCKNER AND SMITH FARM, SHEFFIELD, MA. Inventoried the natural resources of a diverse 330 acre farm and endangered species preserve, and made recommendations for sustainable farm, forestry and residence uses. Helping the clients understand how the landscape worked and how it fit into its larger regional context motivated them to spearhead major conservation efforts in the watershed.

### **Community Design and Whole Farm Planning:**

- ECOVILLAGE AT ITHACA, ITHACA, NY. Revised Master Plan for a 5-neighborhood cohousing community gave a clearer vision and a compact plan that saves infrastructure costs, creates dynamic social spaces & protects valuable habitat. First neighborhood erosion control and edible landscaping aligned the landscape with the group's espoused ecological values. Co-designed the 30-home second neighborhood: set goals, assessed site, and generated schematic site design, grading, and planting plans with edible landscaping, community gardens, solar access, natural irrigation, functional social spaces, and respecting the "genius loci" of the land. Second neighborhood budget: approx. \$2.25 million.
- AMELIA'S FIELDS, PARIS, KENTUCKY. Evaluated properties for purchase; designed chosen site for a vegetable, tobacco, and livestock farm; processing facilities; on-farm restaurant. Budget: \$500,000.
- ACORN COMMUNITY, MINERAL, VA. Co-facilitated 12 members through a comprehensive design process: assessed resources, sited residence dorm, and laid out 72 farm acres. Budget: \$200,000.

### **Facilitated Group Envisioning and Planning Processes:**

- EARTHLANDS COMMUNITY AND PROGRAM CENTER, PETERSHAM, MA. Facilitated a participatory envisioning process for an ecological community and educational program center. Mentored graduate students through site planning for 300+ acres of challenging physical and social terrain. The main success: helping discover subtle but significant differences in vision that meant splitting was best.
- MONADNOCK WALDORF SCHOOL, KEENE, NH. Facilitated multiple stakeholders to design a small urban playground appropriate for first through eighth graders and integrating pedagogical, financial, and practical details. Built it, and managed very tight budget (\$20,000), grading, and subcontractors.

### **Residential Design and Construction:**

- SMITH RESIDENCE, OTIS, MA. A major driveway redesign improved space for the clients' greenhouse and gardens, gave greater privacy, better views and a more aesthetic arrival. Designing a native plant context befitting the acid, streamside habitat enhanced the site plan improvements. Ecological wastewater systems improved the homes' functionality and sales potential. Budget: \$50,000.
- HAMMOND HOLLOW FARM, GILSUM, NH. Complete needs assessment, site analysis and design of 17 acres integrating diverse agricultural systems into an enhanced aesthetic environment.
- CHALTAS AND SAVAGE RESIDENCE, NORTHWOOD, NH. Located and schematically designed house, driveway and drainage system; designed the landscape and installed parts of it. Budget: \$250,000.

## **LAND MANAGEMENT AND CONSTRUCTION EXPERIENCE**

### **Cultivated and studied diverse agricultural crops, practices and systems:**

- GAP MTN. PERMACULTURE, JAFFREY, NH. Designed, built & managed a 2 acre homestead, including:
  - diverse, edible, labor and resource efficient landscape;
  - vegetable, herb and flower gardens, greenhouse, mushrooms, fruit trees;
  - low toxicity, photovoltaic, passive solar, passively cooled and ventilated home;
  - composting toilet & first NH constructed wetland system for household greywater.
- GAP MOUNTAIN PERMACULTURE, JAFFREY, NH. Helped design, build, plant and/or manage two other homesteads, with vegetable, herb, fruit, berry, vine and nut crops, as well as poultry.
- MONADNOCK NURSERIES, PETERBOROUGH, NH. Planted and maintained 4 acres of Christmas trees and blueberries; conducted field trials of Hardy Kiwi as a commercial crop.
- RACE MOUNTAIN FOREST SERVICES, SHEFFIELD, MA. Helped prepare forestry management plans.
- THE RURAL EDUCATION CENTER, WILTON, NH. Helped create a 30+ acre farm education center, including greenhouse management, animal husbandry, gardening, and building construction.

## DESIGN EDUCATION EXPERIENCE

### Effectively and enthusiastically taught concepts of sustainable systems design:

- Organized, designed, and taught eleven certified Permaculture Design Courses, 1990 - 2005, in Indiana, North Carolina, New Hampshire, New York, and Massachusetts for adult and young adult learners. Three of these have received 4 undergraduate credits through University of Massachusetts, Amherst.
- Designed and taught semester course in Permaculture at Antioch New England Graduate School, Keene, NH, 1992. Strong positive response from students.
- Taught numerous one and two day introductory permaculture and forest gardening seminars as a consultant to various organizations and at numerous conferences across the continent, 1987 - 2005.

## PUBLISHED WORKS

- Primary author of the two-volume tome *Edible Forest Gardens: Ecological Vision, Theory, Design, and Practice for Temperate-Climate Permaculture*, published by Chelsea Green in 2005. The Garden Writer's Association awarded Volume 1 a Silver Medal in April, 2005; the two volumes have been nominated for a Literary Award from the Council of Botanical and Horticultural Libraries.
- Co-wrote, co-illustrated, and published a technical bulletin on composting toilet technology, *The Gap Mountain Permaculture Mouldering Toilet*.
- Authored articles on ecological design, most published in *The Permaculture Activist*, a national journal.
- Edited the Spring, 2005 issue of *The Permaculture Activist*. Theme: "Tree Crops and Tree Guilds."

## EDUCATION

- M.A., Landscape Design  
Conway School of Landscape Design, Conway, MA, 1984
- B.A., Magna Cum Laude, Environmental Studies. Minor: Land Use Planning.  
Simon's Rock College, Great Barrington, MA, 1980
- Permaculture Design Course  
The Rural Education Center, Wilton, NH, 1981  
Bill Mollison, co-founder of permaculture design, taught this course.

## RELEVANT WORK HISTORY

1984 - Present	Designer, Instructor, Author, Proprietor	DYNAMICS ECOLOGICAL DESIGN Southwestern NH & western MA
1990 - 1992	General Manager, Instructor	GAP MOUNTAIN PERMACULTURE Jaffrey, NH
1984 - 85	Landscaper	MONADNOCK NURSERIES Peterborough, NH
1983	Assistant Forestry Planner	RACE MOUNTAIN FOREST SERVICES Sheffield, MA
1982	Landscaper	COUNTRY LANDSCAPES Sheffield, MA
1981	Farmer, Greenhouse Manager, Builder	THE RURAL EDUCATION CENTER Wilton, NH