



BRENT EUBANKS, LEED[®] AP

Brent Eubanks earned a B.S. in Engineering and Applied Science from the California Institute of Technology in Pasadena and spent the first part of his career in machine design and aerospace engineering. Wishing to address the danger of an overstressed global ecosystem and driven by a vision of a living built environment, Mr. Eubanks shifted his focus to green buildings and renewable energy.

At Cooperative Community Energy, a solar power buyer's co-op, Mr. Eubanks designed more than a dozen grid-tied solar PV systems and developed in-house tools for calculating system performance and financial payback. He also wrote the winning proposal for Solar Sebastopol, a municipal solar program which has served as a model for municipal solar initiatives nationwide, and developed CCEnergy's PV and energy efficiency consulting services for the commercial building market.

Subsequently, Mr. Eubanks has had a diverse career as a mechanical engineer focusing on energy efficiency and green buildings. He has commissioned existing buildings, developing and executing field tests and analyzing trend data to identify building malfunctions and optimize energy performance. He has performed peer review and developed and executed functional tests for new buildings, with special attention to sequence of operations logic and energy management system performance verification. Now Mr. Eubanks is focused on the modeling and design of low-energy and partially-passive HVAC systems. Mr. Eubanks' design work is informed by a breadth of green building knowledge that goes well beyond HVAC, including renewable energy, passive thermal design, daylighting, materials toxicity and embodied energy, water conservation, and sustainable landscaping.

Mr. Eubanks is also an avid gardener with an interest in agricultural sustainability and food security issues, and teaches classes in urban agriculture.



Taylor Engineering

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Education

1995 California Institute of Technology, BS Engineering & Applied Science

Registration, Certification and Accreditation

2004 LEED® Accredited Professional
2004 Certified Permaculture Designer
2007 State of California: Fundamentals of Engineering

Experience

2009 – present Taylor Engineering, Alameda, CA
Mechanical Designer. Performing engineering design, energy modeling and commissioning of innovative high-efficiency building mechanical systems.

2007 – 2009 Cogent Energy, Concord, CA
Energy Engineer. Commissioned existing and new commercial and institutional buildings and campuses. Performed HVAC design review and developed functional performance tests for new buildings, focusing on sequence of operations development and energy management system performance verification.

2006 – 2007 Stantec, San Francisco, CA
Engineering Designer. Provided conceptual and analytical design support to green building projects, including energy modeling, tradeoff analysis, and design of renewable energy systems.

2001 – 2005 Cooperative Community Energy, San Rafael, CA
Engineering, sales, business development. Designed, sold, engineered, and managed installation of large PV systems for municipal, school, and commercial applications. Developed in-house renewable energy and energy efficiency consulting services. Created Excel/VBA tools to predict PV performance and payback, and trained and supported sales force in use of these tools. Served on Board of Directors 2005 – 2007.

1999 – 2001 Primesource Engineering, Windsor, CA
Machine Design Engineer. Designed mechanical products including assembly tooling, test fixtures, and high voltage electrical connectors. Responsibilities included establishing project specifications, developing test procedures, and streamlining manufacturing processes.



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- 1997 – 1999 Rotary Rocket Company, Mojave, CA
Rocket Engineer. Designed and tested high-pressure injectors and combustion chambers for in-house engine development program.
- 1996 – 1998 Specialized Engineering, Boulder, CO
Mechanical Designer & Drafter. Designed and fabricated prototypes of various sporting-equipment products.

Professional Associations

United States Green Building Council

Member of the Northern California Chapter, 2005 – present

American Society of Heating, Refrigeration, and Air-conditioning Engineers (ASHRAE)

Associate Member, 2006 – Present

Honors and Awards

First Place, Greenbuild Design Slam, 2006