

Elizabeth Kilpatrick

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Summary

I am a critical thinking solar technician who is deeply passionate about the design, development, and construction of alternative energy power systems. I bring a deep understanding of computer hardware and software as well strong experience working with diverse teams successfully.

Certifications

NABCEP Entry Level Certificate

- Solar installation
- Solar system design

Skills

- Design and drafting with AutoCad 2006, 2007, and 2009 for the design of solar and battery system layouts.
- Regulator, alternator and generator testing for repair and rebuilding purposes
- Experience with Shipping and receiving including online shipping
- Installation of solar panels for various programs
- Solar system design and testing including battery systems and grid connected systems
- Design and construction of off-grid solar/wind control systems
- Residential construction, knowledge of tools and safety procedures
- Computer system hardware and software planning and repair both PC and Mac
- Complete understanding of Adobe Creative Suite and Microsoft Office products
- Research and reporting of government programs for alternative energy tax breaks and credits
- Highly developed troubleshooting and problem solving for both mechanical and logical systems

Education

College of San Mateo

Engineering Technology focused on alternative power systems

Class of 2009

San Mateo, CA

Courses covered:

- Solar/Wind installation
- Integral Physics, Thermodynamics, Lasers, Lenses
- Built an Off Grid Solar/Wind Control Center

San Francisco State University

Engineering focused on alternative power systems

09/2007 – 06/2008

San Francisco, CA

Courses covered:

- AC/DC circuits
- Statics
- Advanced AutoCAD and Engineering Graphics and Drafting
- Differential Equations with Linear Algebra

Milwaukee School of Engineering

Electrical Engineering with a focus on power systems

09/2006-05/2007

Milwaukee, WI

Courses covered:

- Advanced Calculus
- Intro to Auto Cad
- Electrical Theory and Practice
- Physics, Computer Programming, C, C++

Employment

Teacher

6/2009 –9/2009

Galileo Learning

Palo Alto, CA

- Teaching middle school age children about Photostatic systems, both passive and direct
- Topics covered included series and parallel wiring, solar cookers, basic solar car design, modification of their solar projects
- Helping the kids learn how to solve their own problems by doing troubleshooting

Swim Instructor

5/2008 –11/2008

La Petite Baleen

Half Moon Bay, CA

- Teaching children as young as 3 months to swim and how to be safe in the water
- Writing individual lesson plans for each class
- Maintaining safe practices with all children
- Worked with autistic children and concerned parents to achieve success in the water

Project Management Intern

11/2006 – 05/2007

Pieper Power

Milwaukee, WI

- Investigated and researched the latest technologies on the market for solar and wind energy installations.
- Created several Excel calculators for pricing multi kilowatt solar and wind systems.
- Presented alternative energy ideas and promoted Pieper power at public trade shows.
- Visited many potential alternative energy system sites and assisted in the feasibility assessments of them.

Desktop Publishing and Design

10/2003–10/2006

The Healthy Independent

Many Locations in Wisconsin and Illinois

- Helped start-up an alternative living newspaper in the North Eastern Wisconsin area.
- First issue of 10,000 copies distributed in October 2003.
- Been instrumental in the growth of the paper from its birth as an 8 page sample to its final 16 page issue published quarterly to over 20 communities in the North Eastern Wisconsin area.
- Adobe Indesign was used for laying out the paper since its inception.
- Corel Draw and Photoshop were used in creating advertising and images.
- Have personally contributed an article on alternative energy in the summer 2005 issue.

Class Instructor

08/2004 – 04/2006

Mad Science of DuPage and McHenry Counties

Lisle, IL and Crystal Lake IL

- Part time work as a science teacher that ran after school, lunch time, birthday and workshop classes for children ages 5-12.
- Responsible for organizing classes, inspiring inquisitive learning, tracking equipment, handling scientific materials, and resolving conflicts.
- Developed innovative equipment management systems and scheduling for Mad Science of McHenry