



CURRICULUM VITAE

Personal information

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Desired employment

TECHNICAL WRITER | RENEWABLE ENERGY ENGINEER

Professional Summary

Technical writer, renewable energy engineer, project engineer, copy editor and communications specialist with an extensive background in renewable energy, sustainable development, IT systems analysis and administration. Greatest strengths include:

- Out think the box.
- Taking bold, decisive and definitive action to identify and reveal solutions to problems others don't realize.
- Identifying opportunities for developing and implementing everyday brilliance for disaster resilience.
- Agile at networking and building strategic alliances by utilizing conventional and unconventional creative approaches.
- Developing and working in collaborative teams.
- Composing concrete, concise, clear technical documentation.
- Broad-based computer skills including hardware, web and software.
- Comprehensive knowledge of current research and trends being conducted in the field of renewable energy and sustainable development, nationally and internationally.
- Held leadership and decision-making roles in e-commerce and computer software start-up companies during the dot-com.

Personal skills & competences

Social skills and competences

- Excellent communicator with the ability to effectively interact and collaborate at all levels.
- Agile and adept at networking and building strategic alliances by utilizing creative approaches.
- Competent at applying non-trodden path by taking bold, decisive and definitive action approaches to problem solving.
- Work with end-users, engineering, development, marketing, and QA groups to examine issues, develop strategic solutions, validate infrastructure, content and approach for improving processes and procedures.

Work well independently or as a team member.

Organisational skills and competences

- Competent at directing the work of others and project management.
- Able to produce materials conveying appropriate level of detail and results with minimal supervision.
- Effective troubleshooting and communication, critical thought, time management and prioritization skills.

Technical skills and competences	<ul style="list-style-type: none"> • Results-oriented professional with a quick grasp of new technologies. • Comprehensive knowledge of current research and trends in the field of renewable energy and sustainability development. • Agile at identifying and revealing solutions to problems others don't realize, including developing and implementing everyday brilliance for disaster resilience. • Perform technical reviews. • Ethane research – Investigate the physical and chemical properties of ethane for utilization as a transportation fuel opportunity. • Wind energy systems – Perform micro-siting of wind resources, data acquisition, data validation and reporting. Develop a commercial application schema for installing small wind turbines in the built environment. Develop a procedure for decommissioning a small wind turbine in the built-environment. • Solar energy systems – Performed solar site assessments, photovoltaic (PV) design and installation . Composed multiple draft design proposals for installing PV arrays. • Energy efficiency design – Define data control points, monitoring equipment, data visualization software selection for building energy and resource performance monitoring. • Systems analysis – Evaluate, recommend, and install technologies, information design methods, analyze system deficiencies and implementing solutions to improve workflow processes.
Computer skills and competences	<p>Excellent computer skills – Web, Hardware, and Software</p> <ul style="list-style-type: none"> • Web: HTML, XML, Cascading Style Sheets (CSS), FTP, Macromedia Dreamweaver for marking-up and managing web sites • Hardware Platforms: IBM Mainframe, Macintosh, PC-compatible, Sun SPARCstation • Software: Adobe Acrobat Professional, Adobe Captivate, Adobe ConnectPro, Adobe Dreamweaver, Adobe FrameMaker, Adobe Illustrator, Adobe InDesign, Adobe Photoshop, Adobe Premier, ANSYS CFX, Apache web server, ArcGIS, AutoCAD, HOMER Energy, JMP, LabVIEW, Microsoft Office Suite for Windows and Macintosh, PVSYST, SolidWorks, SunPath, WindFarm, WRPlot • Operating Systems: MacOS 7.x/8.x/9.x/X, MS-DOS, UNIX (Solaris 7_Intel x86, Solaris 2.6, 2.7, Sun OS 5.7), Windows 95/98/NT 3.51 & 4.0/2000/XP/Vista/7 • Languages: C, SAS, UNIX Shell Scripts • Databases: Access, FileMaker Pro, MySQL, Oracle 8.1.7, Vignette CMS • File Systems, Utilities, Tools: DNS, FTP, NIS, NFS, TCP/IP, Modbus
Technical writing skills and competences	<ul style="list-style-type: none"> • Compose, edit, standardize and revise documentation, including installation guides, tutorial guides, training manuals and proposals, in print and online formats. • Organize, synthesize and gathering data from subject matter experts by observation, reviewing written materials, vendor documentation, regulation manuals and other relevant material sources. • Explain, write and present complex subject matter and materials in an understandable fashion for end-users. • Competencies include manipulating graphics and documentation layout for print and the web.
Drivers License(s)	CA, USA Class D Driver's License
Certifications	<p>OSHA 30 Hour Training, License No. 32-601170851 PV Design and Installation, Solar Energy International Wind Power and Turbine Technology, ASME</p>

Dates	28/05/2012 – 09/11/2012
Occupation or position held	Technical Writer Consultant Project Engineer (Telecommuting Contract)
Main activities and responsibilities	Principal technical writer for the UH-HNEI/DoE Grid, Photovoltaic and Battery Projects Smart Grid Inverter Project, a part of the US DoE Energy Efficiency and Renewable Energy SunShot Initiative. Generate technical copy for a nascent smart grid communications protocol standard for embedding a high-penetration of residential PV inverters on existing electrical distribution networks. Design and develop an acceptance test plan for the virtual, proof-of-concept and integrated environments. Perform research embedding renewable energy generators on low-voltage and medium voltage electricity networks. Deliverables include: <ul style="list-style-type: none"> • Acceptance test plans • Communications flow diagrams and functional mappings • Component level instructions • Functional requirements • Systems architecture • Test procedures • Use cases
Name and address of employer	Silver Spring Networks, Redwood City, CA, USA, http://www.silverspringnet.com/
Type of business or sector	Smart Grid Networks for Renewable Energy Applications
Dates	01/09/2011 – 31/12/2013
Occupation or position held	Renewable Energy Researcher (Volunteer)
Main activities and responsibilities	Perform renewable energy policy research including investigating distributive/decentralized energy, energy/demand reduction and community choice alliance energy programs arenas.
Name and address of employer	Local Clean Energy Alliance, Oakland, CA, USA, http://www.localcleanenergy.org/
Type of business or sector	Renewable Energy Policy
Dates	01/08/2009 – 31/12/2012
Occupation or position held	Project Engineer (In-perpetuity, Telecommuting Contract)
Main activities and responsibilities	Conduct wind and hydrokinetic engineering research, provided analysis and compiled information for a consultancy specializing in energy conservation, maximising of resource efficiencies, system automation and integration.
Name and address of employer	Silvercrest, South Normanton, Derbyshire, UK, http://www.silvercrestec.com
Type of business or sector	Renewable Energy, Energy Efficiency Designs
Dates	01/01/2008 – 01/09/2011
Occupation or position held	Web Consultant Technical Writer Partner (Telecommuting Contract)
Main activities and responsibilities	Responsible for editing and writing web copy for global audiences, enhancing the navigability of the web site, performing search engine optimization and usability testing for Wattminder, an advanced, real-time photovoltaic system and utilities monitoring and intelligent diagnostics web site.
Name and address of employer	Yang Associates, Sunnyvale, CA, USA http://www.wattminder.com & http://pvmonitor.net
Type of business or sector	Renewable Energy
Dates	01/09//2007 – 31/10/2007
Occupation or position held	Technical Writer (Telecommuting Contract)
Main activities and responsibilities	Technical Writer responsible for composing a wind turbine load control methods patent applications for the multi-disciplinary consulting firm specializing in wind energy applications.
Name and address of employer	Chinook Wind, Everson, WA, USA, http://www.chinookwind.net
Type of business or sector	Renewable Energy

Dates 14/01/2006 – 30/06/2006

Occupation or position held **Project Engineer**

Main activities and responsibilities Project Engineer at a mechanical engineering firm that specializes in high performance, environmentally sustainable and energy efficient heating, ventilating and air conditioning system designs. Assist in defining the data control points, monitoring equipment and data visualization software selection for energy and resource performance monitoring on the Carnegie Institution Global Ecology Center building. Conduct performance-based energy calculations and analysis for PG&E's Non-Residential Incentive Program with a focus on industrial buildings. Provide content updates and assisted with report and proposal generation.

Name and address of employer Rumsey Engineers, Inc., Oakland, CA, USA, <http://www.rumseyengineers.com>

Type of business or sector Mechanical Engineering/Energy Efficiency

Projects, research, presentations & publications

Projects and research

9/2011 – Present | Investigating water reclamation and using renewable energy systems technologies to condense moisture in the air for use in urban farm irrigation. *REST in Urban Agriculture* presentation. http://kimgerly.com/projects/urban_ag.pdf

11/2013 – Present | Ethane as a green(er) transportation fuel opportunity.

10/2013 – Present | SB 43 SF East Bay Area Community RE Project(s) - Perform discovery for implementing community hybrid RE projects on electrical distribution networks in underrepresented urban communities that include utility scale wind, solar, etc.

03/2013 | Project Engineer for *Grarado Green Energy*. Perform research and due diligence for propagating *Jatropha* tree use in sustainable development biomass/biofuel applications in Haiti.

09/2011 – 12/2013 | Perform renewable energy policy research for the *Local Clean Energy Alliance (LCEA)* investigating distributive/decentralized energy, energy/demand reduction, and community choice alliance energy programs arenas. Oakland, CA, USA
<http://www.localcleanenergy.org/>

08/2009 | Conduct preliminary wind and hydrokinetic engineering research for a conceptual pumped hydro-wind schema for *Silvercrest Energy and Automation*. <http://www.silvercrestec.com/>

01/2006 – 06/2006 | Define the data control points, monitoring equipment and data visualization software selection for energy and resource performance monitoring on the *Carnegie Institution Global Ecology Center Building*. <http://www.cbe.berkeley.edu/mixedmode/carnegie.html>

2004 – 2005, 2012, 2013 | Perform ten residential solar installations as a volunteer for *Grid Alternatives* and *Sutton Solar* in the San Francisco Bay Area, USA.
<http://www.gridalternatives.org/>

Proposals

03/2014 | *How can CO₂ emissions from the transportation sector be reduced?* for the MIT Center for Collective Intelligence Climate CoLab Transportation 2014 Contest, Cambridge, MA, USA

06/2010 | *Solarize NE Proposal* for Sustainable Solutions Unlimited, LLC, Portland, OR, USA
<http://www.solarizeportland.org/>

10/2009 | *Mitigating Noise Generated by Small Wind Turbines* Proposal for the *Portland State University Mechanical and Materials Engineering Capstone Project*

Publications and presentations

- 09/2015 | *Atmospheric Water Generation for Aquatics Facilities*
http://kimgerly.com/projects/AWG_aquatics.pdf
- 02/2015 | *Ethane as a cleaner transportation fuel*
https://www.academia.edu/11167207/Ethane_as_a_Cleaner_Transportation_Fuel
- 05/2014 | *REST in Urban Agriculture + S.E.E.C. Home*
<http://kimgerly.com/projects/urbanAg+SEEK.pdf>
- 04/2014 | *Ethane as a green(er) transportation fuel opportunity*
http://kimgerly.com/projects/ethane_infographic.pdf
- 09/2013 | *Why We Need Community Wind in the SF Bay Area*
http://www.kimgerly.com/projects/sfba_cmtywind.pdf
- 05/2013 | *Small Wind Turbines in the Built Environment Decommissioning Guide*
http://www.kimgerly.com/projects/wtg_decom.pdf
- 03/2012 | *Installing Small Wind Turbine Generators (WTGs) in the Urban/Built Environment – What not to do...* http://www.kimgerly.com/projects/WysingerWTDecomProject_WhatNotToDo.pdf
- 01/2010 | *RE Power Haiti Short Business Plan Concept* for the Solar Electric Light Fund, Washington, DC, USA <http://www.self.org>
- 04/2010 | Presentation – *GIS & Wind Siting: Using GIS to Assist in Siting WTGs in the Urban/Built Environment*, Centre for Renewable Energy Systems Technology (CREST), Loughborough University, UK
- 09/2009 | Interim Report - *Wind Speed and Energy Yield Analysis of Small Wind Turbines on a 45m High-rise Building in the Built Environment*, Centre for Renewable Energy Systems Technology (CREST), Loughborough University, UK
- 09/2007 – 10/2007 | Contributor to US Patent Application Publication, Pub. No.: US 2007/0057517 A1, *Wind Turbine Load Control Method*, <http://www.chinookwind.net>
- 10/2004 – 03/2005 | Publication, *Installing Photovoltaics on California K-12 Schools*, <http://rahus.org>

Consultations

- 03/2014 | Provide a synopsis on the technical feasibility potential of using ethane as an alternative transportation fuel opportunity to the [Nucor Steel Corporation](#).
- 11-12/2012 | Perform energy assessment for back-up power emergency response options and contingencies at two locations of the [St. Vincent de Paul Society of Alameda County](#), including performing a wind resource study, energy efficiency optimization for meeting day-to-day power needs, and investigating alternative storage opportunities for uninterruptible power requirements during disaster relief events.
- 03/2011 | Provide consultation on small wind turbine installation including data acquisition and visualization recommendations at the [Phipps Conservatory Center for Sustainable Landscapes](#) in Pittsburgh, PA, USA.
- 01/2008 – 09/2011 | Provide recommendations for performing search engine optimization and usability testing for [Wattminder](#), an advanced, real-time photovoltaic system and utilities monitoring and intelligent diagnostics web site for [Yang Associates](#), Sunnyvale, CA, USA.

Education & training

Dates	22/01/2014 – 17/12/2015
Title of qualification awarded	Certificate, Industrial Maintenance [In-progress]
Principal subjects	Continuing education coursework covering machining, welding, hydraulics, electrics, OSHA safety, blueprint reading.
Name and type of organisation providing education and training	Laney College, Oakland, CA, USA, http://www.laney.edu/wp/industrialmaintenance/
Level or international classification	Continuing education
Dates	29/09/2008 – 17/06/2010
Title of qualification awarded	Postgraduate Diploma (PGDipl, MSc non-thesis) Renewable Energy Systems Final Mark - PASS
Principal subjects	Graduate coursework covering renewable energy systems technologies research and report generation on the following topics: <ul style="list-style-type: none">• Solar PV characterization and performance of mono-Si and poly-Si solar cells.• PV system design of an engineering building façade using PVSYST software.• Compact oscillating water column (OWC) calibration, flow duration curve (FDC) and discharge of a v-notched weir evaluations.• Operational performance of anaerobic digestion (AD) potential of fertilizer and methane in wastewater.• Sustainable development and environmental management scenarios for long-term security of energy supply for the Economic Community of West African States (ECOWAS).• Wind farm design, power curve and coefficient of power curve determination for a 25kW wind turbine.• Load flow analysis embedding wind turbine generators on an existing electrical distribution network.• Small wind turbines sited on high-rise buildings in the built environment in the UK Midlands.
Principal subjects	Activities and Societies : Loughborough Employer Mentoring Schemes Pilot Programme participant - Intern at BlueNG.com [A project supported by the National Grid]
Name and type of organisation providing education and training	Centre for Renewable Energy Systems Technology (CREST), Loughborough University, Loughborough, UK, http://www.lboro.ac.uk/crest/
Level or international classification	Postgraduate Diploma (PGDipl, MSc non-thesis) Final Mark - PASS
Dates	28/08/2005 – 05/12/2005
Title of qualification awarded	None
Principal subjects	Sustainability Development/Energy and Resources
Name and type of organisation providing education and training	Universiteit Utrecht, Utrecht, NL
Principal subjects	Sustainability development coursework in energy analysis, integrated systems approach to sustainability development and energy and resources policies.
Level or international classification	Post-baccalaureate student
Dates	04/04/2005 – 31/05/2005
Title of qualification awarded	PV Design and Installation Certificate
Principal subjects	Photovoltaic and Design and Installation coursework
Name and type of organisation providing education and training	Diablo Valley College, Pleasant Hill, CA, USA
Level or international classification	Post-baccalaureate student in engineering technology

Dates	2001, 2002, 2005
Title of qualification awarded	None
Principal subjects	Mechanical engineering and sustainable development coursework in thermodynamics, quantitative aspects of global environmental problems, toxicology, environmental law and regulation.
Name and type of organisation providing education and training	University of California, Berkeley, CA, USA
Level or international classification	Post-graduate student
Dates	15/08/1994 – 31/05/1995
Title of qualification awarded	None GPA 3.5
Principal subjects	Environmental Engineering coursework in statistical design of experiments, risk analysis, hazardous waste management and solid waste management.
Name and type of organisation providing education and training	Johns Hopkins University, Baltimore, MD, USA
Level or international classification	Post-graduate student
Dates	15/09/1991 – 31/03/1993
Title of qualification awarded	BSc Mathematics
Principal subjects	General mathematics and engineering coursework in engineering graphics, statics, materials engineering, discrete event systems simulation, statistical mathematics, differential equations, linear algebra and boundary value problems.
Name and type of organisation providing education and training	Georgia State University, cross-enrolled Georgia Institute of Technology, Atlanta, GA, USA
Level or international classification	BSc (Baccalaureate)