



KIMBERLY KING

TECHNICAL WRITER
RENEWABLE ENERGY ENGINEER
DISRUPTIVE TECHNOLOGIST

EXPERIENCE

- CONTRIBUTOR & REVIEWER 2017** ● **PLEA 2017** | Water & Waste Forum
Scientific Committee participant and reviewer of papers on issues of efficiency, and innovative thinking that can solve water and waste problems.
- TECHNICAL WRITER 1999-PRESENT** ● **SELF-EMPLOYED (FREELANCE CONSULTANT)**
Research, design, edit, write, revise compelling technical copy and stories for general and global audiences. Streamline documentation work flow.
- RENEWABLE ENERGY ENGINEER 2007-PRESENT** ● **OUT THINK THE BOX (FREELANCE CONSULTANT)**
Provide sustainable development, engineering and technical advisory services utilizing RESTs, energy efficiency, and conservation.
- CONTRIBUTOR 2015-PRESENT** ● **LAND-ACTION.ORG**
Design, plan, develop urban adaptation strategies for water-resource management, and hyper-intense urban farming. Develop a human excreta management schema for application as an urban sanitation alternative.
- SR. TECHNICAL WRITER | RESEARCH ENGINEER 2012** ● **SSN | UH-HNEI | DOE GRID, PHOTOVOLTAIC & BATTERY SMART GRID INVERTER PROJECT**
Wrote first technical copy draft of a nascent smart grid communications protocol standard.
- PROJECT ENGINEER 2009-2012** ● **SILVERCREST ENERGY AND AUTOMATION**
Conduct wind and hydrokinetic research, and analysis for energy conservation, maximizing of resource efficiencies and system integration.
- PROJECT ENGINEER 2006** ● **RUMSEY ENGINEERS**
Define data control points, monitoring equipment and data visualization software selection for energy and resource performance monitoring.
- SR UNIX SYSTEMS & WEB ADMINISTRATOR 1994-2005** ● **FREELANCE**
Perform the duties of a Sr UNIX Systems Administrator, Programmer, and Web Architect at high-profile computer science companies.

INTERESTS



wind



solar



hydrokinetic



biomass

PROFILE

Technical writer, renewable energy engineer, disruptive technologist, web content management, copy editor, and communications specialist in renewable energy systems technologies (RESTs), and sustainable development.

Out thinking the box...

CONTACT



+1 415 832 9084



kimgerly@outthinkthebox.net

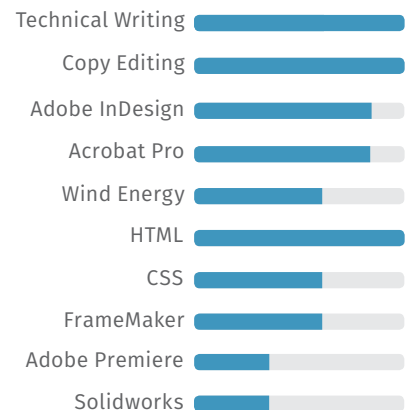


www.outthinkthebox.net



Oakland, CA, USA

SKILLS



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/in/kimgerly



@kimgerly

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RENEWABLE ENERGY ENGINEER
DISRUPTIVE TECHNOLOGIST

EDUCATION

**PgDIPL/MSC
(NON-THESIS) IN
RENEWABLE ENERGY
SYSTEMS TECHNOLOGY**

LOUGHBOROUGH UNIVERSITY (UK)

Post-graduate coursework in mechanical engineering, electrical engineering and sustainable development at CREST.

CONTINUING EDUCATION

LANEY COLLEGE (OAKLAND, CA, USA)

Hands-on training in Machining, Welding, Electrics, OSHA Safety, Blueprint Reading, CNC.

**BSC CANDIDATE IN
RENEWABLE ENERGY
ENGINEERING**

OREGON INSTITUTE OF TECHNOLOGY (OR, USA)

Continuing education coursework in electrical fundamentals, fluid mechanics, heat transfer, photovoltaic materials science.

**BSC IN
MATHEMATICS**

GEORGIA STATE UNIVERSITY (ATLANTA, GA, USA)

Pursued general mathematics and engineering coursework. Cross-enrolled at the Georgia Institute of Technology.

SKILLS

**WIND ENERGY SYSTEMS
2008-PRESENT**

ENGINEER

Perform micro-siting of wind resources, data acquisition, data validation and reporting. Decommission a small wind turbine.

**PHOTOVOLTAIC SYSTEMS
2004-PRESENT**

ENGINEER

Perform residential solar site assessments and analysis, photovoltaic (PV) design and installation.

**SYSTEMS ANALYSIS
2012-2015**

WEB ARCHITECT

Evaluate, recommend, and install technologies, information design methods, analyze system deficiencies and implement solutions.

**ENERGY MONITORING
2006**

PROJECT ENGINEER

Benchmark energy and resource building performance monitoring on the Carnegie Institution Global Ecology Center building.

PROFESSIONAL AFFILIATIONS | CERTIFICATIONS



ises



ei



ucs-usa



osha

STRENGTHS

- Strategizing
- Provoking innovative evaluation, development, and implementation
- Taking bold, decisive, definitive action identifying and revealing solutions others don't realize
- Identify opportunities for developing and implementing everyday brilliance for disaster resilience
- Agile networker, build strategic alliances utilizing conventional/unconventional approaches
- Working in collaborative teams
- Composing concrete, concise, clear technical documentation
- User innovation

CONTACT



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WRITING SAMPLES

On this page, you will find only a sampling of documents I composed over the years. Over the years, my work includes creating brochures, an info-graphic, presentations, user manuals, reports, and scientific papers.

Services we offer
Flow Assurance
The solution of choke-avoid blockages. Ensure accessible systems and economical flow of the hydrocarbon stream from the reservoir without interruption.

Services we offer
Hydrate Remediation
We use a self-contained, self-powered CO₂ mounted skid to address hydrate plug formation to ensure flow control assurance.

Services we offer
Sediment Blockages Removal
Provide operational surveys, structural surveys, and provide cost effective recommendations to address sediment blockages.

Our vast knowledge of the energy sector allows Mark V Systems LLC to make recommendations that can generate cost savings. Innovative service offerings address detection issues in the field, ensuring consistent flow, enabling well managers to keep their costs down, so they can remain on budget.

Mark V Systems LLC strives to generate an immediate payback through reduced costs, enhanced productivity, and lower maintenance risks from challenges inherent in the oil and gas industry when detecting and addressing the health of a flow-line in real time.

Taking bold, decisive, definitive action, identifying and installing solutions where they aren't made is our comfort zone.

we are
Mark V Systems LLC
ENGINEERS

Do you have flow assurance control issues?

Cost effective flow assurance project management.

Mark V Systems LLC
Houston, TX 77058, USA
Phone Mark: 832-453-4740
Phone Charles: 832-453-9435

BROCHURE
Mark V Systems LLC is a proactive flow assurance service company for the offshore oil and gas industry.
(Adobe InDesign)

A Green(er) story
Ethane is a transportation fuel opportunity

Natural Gas Distribution

C₂H₆ liquefies when compressed
Small energy content (100 BTU/cu ft)
Critical pressure at 23 bar (268.6 psi)
Critical temperature at 32.1 °C (89.8 °F)
LNG is gaseous unless cooled below 62.6 °C

Driving range not limited
1.5 times weight for same volume as diesel or gasoline

Gas Vehicle Comparison (BTU/gal)

17.5% CNG
80.8% Compressed C ₂ H ₆
80.8% LNG
100.0% Gasoline

Green(er) than GTL & LNG

- 4x less CO₂ (per gal)
- 70% less CO₂ (per gallon)

Less hassle, Less capital intensive to build

- No siting program
- Construction cycles - 2 months
- 1.6 times faster - 4 years

Natural Gas Wells
Mixed CH₄, C₂H₆, C₃H₈, C₄H₁₀

Separation & Processing
CH₄, H₂, H₂O, CO₂, N₂, C₂H₆, C₃H₈, C₄H₁₀, C₅H₁₂, C₆H₁₄, C₇H₁₆, C₈H₁₈, C₉H₂₀, C₁₀H₂₂, C₁₁H₂₄, C₁₂H₂₆, C₁₃H₂₈, C₁₄H₃₀, C₁₅H₃₂, C₁₆H₃₄, C₁₇H₃₆, C₁₈H₃₈, C₁₉H₄₀, C₂₀H₄₂, C₂₁H₄₄, C₂₂H₄₆, C₂₃H₄₈, C₂₄H₅₀, C₂₅H₅₂, C₂₆H₅₄, C₂₇H₅₆, C₂₈H₅₈, C₂₉H₆₀, C₃₀H₆₂, C₃₁H₆₄, C₃₂H₆₆, C₃₃H₆₈, C₃₄H₇₀, C₃₅H₇₂, C₃₆H₇₄, C₃₇H₇₆, C₃₈H₇₈, C₃₉H₈₀, C₄₀H₈₂, C₄₁H₈₄, C₄₂H₈₆, C₄₃H₈₈, C₄₄H₉₀, C₄₅H₉₂, C₄₆H₉₄, C₄₇H₉₆, C₄₈H₉₈, C₄₉H₁₀₀, C₅₀H₁₀₂, C₅₁H₁₀₄, C₅₂H₁₀₆, C₅₃H₁₀₈, C₅₄H₁₁₀, C₅₅H₁₁₂, C₅₆H₁₁₄, C₅₇H₁₁₆, C₅₈H₁₁₈, C₅₉H₁₂₀, C₆₀H₁₂₂, C₆₁H₁₂₄, C₆₂H₁₂₆, C₆₃H₁₂₈, C₆₄H₁₃₀, C₆₅H₁₃₂, C₆₆H₁₃₄, C₆₇H₁₃₆, C₆₈H₁₃₈, C₆₉H₁₄₀, C₇₀H₁₄₂, C₇₁H₁₄₄, C₇₂H₁₄₆, C₇₃H₁₄₈, C₇₄H₁₅₀, C₇₅H₁₅₂, C₇₆H₁₅₄, C₇₇H₁₅₆, C₇₈H₁₅₈, C₇₉H₁₆₀, C₈₀H₁₆₂, C₈₁H₁₆₄, C₈₂H₁₆₆, C₈₃H₁₆₈, C₈₄H₁₇₀, C₈₅H₁₇₂, C₈₆H₁₇₄, C₈₇H₁₇₆, C₈₈H₁₇₈, C₈₉H₁₈₀, C₉₀H₁₈₂, C₉₁H₁₈₄, C₉₂H₁₈₆, C₉₃H₁₈₈, C₉₄H₁₉₀, C₉₅H₁₉₂, C₉₆H₁₉₄, C₉₇H₁₉₆, C₉₈H₁₉₈, C₉₉H₂₀₀, C₁₀₀H₂₀₂

INFO-GRAPHIC
Ethane | Low-carbon, low-cost, high-performance transportation fuel opportunity.
Click image to view entire image.
(Adobe Photoshop)

out think the box

REST* in Urban Agriculture — Humanure Service Opportunity

*REST - Renewable Energy Systems Technology

Oakland, CA, USA
23 May 2016

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Recommended Citation
Kimberly King,
"REST in Urban Agriculture - Humanure Service Opportunity",
http://www.kimgerly.com/projects/humanure_svcnslst.pdf

Zep System II Quick Start Guide

This guide is intended to provide a quick introduction to the Zep System II standard installation procedure. It is not intended to replace the full Installation Manual.

IMPORTANT: Read the Zep System II PV Module Installation Manual in entirety prior to installing your Zep System II PV array. The installation manual can be located at: www.zepsolar.com/resources, where you will also find the Zep System II Instructional Video, Engineering Certification Letter with Sign Table, and link to the Installer safety design tool.

Zep Grease **Zep Tool** **Flat Tool**

The Zep System II Grease is used to lubricate the Zep System II PV Module Mounting Brackets and Zep System II PV Module Mounting Brackets.

The Zep Tool is used to install the Zep System II PV Module Mounting Brackets and Zep System II PV Module Mounting Brackets.

The Flat Tool is used to install the Zep System II PV Module Mounting Brackets and Zep System II PV Module Mounting Brackets.

QUICK START GUIDE
Zep Solar II Quick Start Guide
(Adobe FrameMaker & SolidWorks)

O2 Systems, Inc.
Engineering, Design, and the support systems

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REMORA Rescue Submarine (On Deck)

Experts in engineering design, surface and underwater life support systems.

At O2 Systems, Inc. we leverage our expertise in life support systems, technical assistance, deep water design, engineering services and advanced data technology to provide a full range of innovative, scalable and reliable products and services.

Latest News & Events
Come see us June 23-24, 10:30 AM with Sea Convention & Conference (SMCC), San Antonio, TX

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WEB SITE
O2 Systems, Inc.
(Adobe Dreamweaver)

PRESENTATION
Renewable Energy Systems Technologies in Urban Agriculture
(Adobe InDesign)

REPORT

Silver Spring Networks | UH-HNEI | DoE Grid, Photovoltaic & Battery Smart Grid Inverter Project, part of the US DoE Energy Efficiency & Renewable Energy SunShot Initiative (MS Word, Adobe Photoshop)

Silver Spring Networks

UH-HNEI Smart Grid Inverter Project
System Architecture

Silver Spring Networks
10000 North Central Expressway
Houston, TX 77058, USA
Phone: 281-433-3333
www.silver-spring.com

Development and Demonstration of Smart Inverters for High-Penetration PV Applications
Dr. Richard Rochelleau
DE-EE0005338.001

OBJECTIVES AND PARTNERS

- Enable high penetration of solar PV
- Lower grid congestion costs
- Increase the utility of renewable energy

SOLUTION ARCHITECTURE

Utility Back Office Systems

Smart Grid Network

Smart Inverters

WAN

FIELD TRIALS

SOLUTION OVERVIEW

- Smart Energy Profile 2.0 - Distributed Energy
- Smart Inverter with Advanced Grid Functionality (AGF)
- Standards-based Smart Grid communication
- Institute (IEEE)

SunShot