

Keith Lane, P.E., RCDD/NTS Specialist, TPM, LC, LEED A.P.
Professional Electrical Engineer, General Electrical Administrator
Principal/Partner – Lane Coburn & Associates, LLC



Years of Experience: 15

P.E. Lic: Washington, Alaska, California, Oregon, Utah, Montana, Idaho, Hawaii, Nevada & Arizona

Keith is a Professional Electrical Engineer licensed in ten states (P.E.), a Licensed General Electrical Administrator in Washington State, a Registered Communications Distribution Designer (RCDD) through BICSI, a Network Transport System Specialist (NTS (LAN) Specialist) registered through BICSI, a Certified Telecommunications Project Manager (TPM) through the Telecommunication Project Management Association (TPMA), a Lighting Certified Qualified Professional (LC) through the National Council on Qualifications for the Lighting Professional & a LEED Accredited Professional (LEED A.P.) through the U.S. Green Building Council. Keith is a nationally known speaker and author and has active memberships in several professional organizations including; BICSI, TPMA (Telecom Project Management Assoc), NFPA, 7 x 24 Exchange, the Illuminating Engineering Society & the WA State Society of Healthcare Engineers.

Professional Certifications - Professional Electrical Engineering License

Washington: 1998 (#35731)	Alaska: 2001 (#10332)	California: 2001 (#E16471)
Arizona: 2002 (#38527)	Oregon: 2001 (66879PE)	Utah: 2001 (#4909891)
Montana: 2001 (#14712PE)	Idaho: 2001 (#10104)	Hawaii: 2002 (#10622)
Nevada: 2002 (#015900)	EIT Certified: '94 (#19253)	NCEES Record 2004

Licensed General Electrical Administrator – Washington State: LANE*KT943DR

Additional Certifications / Accreditations:

- (RCDD) Registered Communications Distribution Designer – BICSI #07016
- (NTS (LAN) Specialist) Network Transport System Specialist – BICSI #01506
- “LC” Lighting Certified Qualified Professional (NCQLP)
- TPM – Certified Telecommunications Project Manager through the (TPMA)
- LEED Accredited Professional (Leadership in Energy & Environmental Design)
- Cold Regions Engineering Certified-University of Washington & University of Alaska
- Advanced project manager training BICSI – PM 125
- International Illumination Design Award (IIDA) 2003 - Section Participant Award

Education

Bachelor of Science in Electrical Engineering, Seattle University, 1993
Dean’s List, Seattle University, Electrical Engineering Department 1992
Dean’s List, University of Washington, Engineering Department 1987 & 1988

Professional Memberships & Activities

Member of the Seattle Code Committee Implementation of the 2005 NEC – 2005
Contributing Editor to Consulting Specifying Engineering Magazine – 2004-2008
Advisory Board for Consulting Specifying Engineering – 2005-2008
Member of the National Fire Protection Agency - Electrical Section.
Member of the Illuminating Engineering Society of North America.
Member of the 7x24 Exchange – Northwest Chapter (End to End Reliability).
Member of BICSI – A Telecommunications Association.
Member of the Telecommunication Project Management Association (TPMA)
Member of the Washington State Society of Healthcare Engineers.
Honored Member of Americas Registry of Outstanding Professionals, '02-'03, '04-'05.
Honored Member of Strathmore’s Who’s Who, 2004-2005, 2003-2004.
Former Member of the National Society & WA State Society of Professional Engineers.
Former Member of NWPPA – Northwest Public Power Association.

Publications / Expert Panelist/ Speaking Engagements

The following list of published articles and speaking contributions to industry leading publications illustrates Keith's extensive knowledge and dedication as an industry leader. Please visit our website to download any of these articles.

Speaking Engagements

- CSE Magazine** (Consulting Specifying Engineer), June 2004
Expert Panelist on "Building Automation Systems at a Crossroads" Webcast
- CSE Magazine** (Consulting Specifying Engineer), March 2006
Expert Panelist on "ASHREA/IESNA 90.1 Good Engineering Practice" Webcast
- CSE Magazine** (Consulting Specifying Engineer), September 2006
Expert Panelist on "Data Center and Critical Environments Design & Construction" Webcast
- CSE Magazine** (Consulting Specifying Engineer), May 2007
Expert Panelist on "UPS, Design and Specification Consideration" Roundtable
- CSE Magazine** (Consulting Specifying Engineer), May 2008
Expert Panelist on "Grounding & Bonding Electrical Distribution Systems"
- CSE Magazine** (Consulting Specifying Engineer), Ongoing
Consulting Editor and Member of the Advisory Board – CSE Magazine
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ECM (Electrical Design, Construction & Maintenance) Magazine

- EC&M Magazine** (Electrical Design, Construction & Maintenance) September 2004
Author of "Beware of Simplistic Fault Current Calculations" article
- EC&M Magazine** (Electrical Design, Construction & Maintenance) December 2004
Author of "Countering Heating Effects from Troublesome Harmonics" article
- EC&M Magazine** (Electrical Design, Construction & Maintenance) November 2005
Author of "LEED and the Electrical Contractor" article
- EC&M Magazine** (Electrical Design, Construction & Maintenance) August 2006
Author of "3D CAD Drawings for the Electrical Contractor" article
- EC&M Magazine** (Electrical Design, Construction & Maintenance) June 2007
Author of "The Basics of Large Dry-Type Transformers" article
- EC&M Magazine** (Electrical Design, Construction & Maintenance) June 2007
Author of "When Lightning Strikes" article
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CSE (Consulting Specifying Engineering) Magazine

- CSE Magazine** (Consulting Specifying Engineer), July 2004
Contributed to "Killing Kilowatt hours" article.
- CSE Magazine** (Consulting Specifying Engineer), October 2004
Author of "IBC & Emergency Lighting" article
- CSE Magazine** (Consulting Specifying Engineer), November 2004
Author of "Comparison of a Series Rated and Fully Rated Electrical Systems" article
- CSE Magazine** (Consulting Specifying Engineer), January 2005
Author of "The Electrical Impacts of the IBC code on Fire Pumps" article
- CSE Magazine** (Consulting Specifying Engineer), March 2005

Author of “IBC Code Changes that Effect Electrical Design” article

CSE Magazine (Consulting Specifying Engineer), March 2005

Author of “Elevating Emergency Power Requirements for Elevators” article

CSE Magazine (Consulting Specifying Engineer), May 2005

Author of “Efficient Lighting Systems for LEED Certified Projects” article

CSE Magazine (Consulting Specifying Engineer), June 2005

Author of “2005 NEC Changes Could Significantly Affect the Design & Installations of Emergency Distribution Systems” article

CSE Magazine (Consulting Specifying Engineer), July 2005

Author of “2005 NEC Changes Could Significantly Affect the Design & Installations of Emergency Distribution Systems” article

CSE Magazine (Consulting Specifying Engineer), August 2005

Author of “2005 NEC Changes Could Significantly Affect the Design & Installations of Emergency Distribution Systems” article

CSE Magazine (Consulting Specifying Engineer), February 2006

Author of “Safe Parking” article

CSE Magazine (Consulting Specifying Engineer), July 2006

Author of “Washing Away Electrical Costs” article

CSE Magazine (Consulting Specifying Engineer), January 2007

Author of “EPO or No – A consideration of NEC Article 645.10 and 685” article

CSE Magazine (Consulting Specifying Engineer), February 2007

Author of “Modeling Electrical Distribution Systems in 3D CAD” article

CSE Magazine (Consulting Specifying Engineer), May 2007

Part of Roundtable article, “UPS Design, Specification Considerations” article

CSE Magazine (Consulting Specifying Engineer), January, 2008

Author of “Isolate Power Supplies for Hospitals” article

BICSI (Building Industries Consulting Services International) Magazine

BICSI News (Building Industries Consulting Services International) Jan/Feb, 2005

Smart Buildings in 10 years – Building Category Winner for BICSI 30th Anniversary Contest

BICSI News (Building Industries Consulting Services International) Nov/Dec, 2005

Author of “Reliable Electrical Systems for Critical Data Systems”

BICSI News (Building Industries Consulting Services International) Nov/Dec, 2005

Author of “A Knowledgeable and Experienced Data Contractor Can LEED the Way to Project Certification”

BICSI News (Building Industries Consulting Services International) Jan/Feb, 2008

Author of “Determining the Appropriate Separation of Data and Power Cables”

Pure Power Magazine

Pure Power – Power Quality Magazine (Consulting Specifying Engineer), November 2004

Author of “Power Quality - Generator Size & Code Issues #1” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), December 2004
Author of “Power Quality - Generator Size & Code Issues #2 ” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), January 2005
Author of “Power Quality - Generator Size & Code Issues #3” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), February 2005
Author of “Power Quality - Generator Size & Code Issues #4” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), March 2005
Author of “Power Quality - Generator Size & Code Issues #5” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), April 2005
Author of “Power Quality - Generator Size & Code Issues #6” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), May2005
Author of “Power Quality - Generator Size & Code Issues #7” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), June 2005
Author of “Power Quality - Generator Size & Code Issues #8” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), July 2005
Author of “Power Quality - Generator Size & Code Issues #9” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), August 2005
Author of “Power Quality - Generator Size & Code Issues #10” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), March 2005
Author of “Coordinated Protection for Critical Environments” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), Summer 2005
Author of “Be Cautious and Aware of Proper Transformer and Static Switch Location in Critical Environments” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), Fall 2005
Author of “Sizing Neutrals for transformers” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), Winter 2005
Author of “Lightning Protection: Optional or Recommended” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), Spring 2006
Author of “UPS on the Power Quality Frontline” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), Spring 2006
Author of “UPS on the Power Quality Frontline #2” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), April 2006
Author of “Power Factor Correction Capacitors Part 1” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), May 2006
Author of “Power Factor Correction Capacitors Part 2” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), June 2006
Author of “Be Cautious and Aware of Proper Transformer and Static Switch Location in Critical Environments #2” article
Pure Power – Power Quality Magazine (Consulting Specifying Engineer), March 2008
Author of “Heating Calculation for Large Electrical Duct Banks” article

USGBC News (United States Green Building Council)

USGBC News (U.S Green Building Council) February 2006, Author of “Safe Parking” article.