

Christopher J. Williams, P.E., LEED® AP

Christopher has over twenty (20) years' experience in design, construction administration and code analysis. In regard to electrical systems for buildings, he has designed systems varying from lighting (interior, exterior, and specialty), power (normal, generator, UPS, computer grade), power system analysis (fault current studies, load flow studies, coordination studies), fire alarm systems, and special systems (telephone, data, CATV, intercom, nurse call, etc.) for commercial, educational, health care facilities and laboratories. Outside of the building arena, Christopher also has extensive experience in the solar industry.

Total Years Experience

20 years

Registration

Licensed Professional Engineer

Arizona/2010

Louisiana/2011

Kentucky/2011

Wyoming/2012

Idaho/2012

California/2012

Utah/2016

Nevada/2016

Texas/2016

Colorado/2017

New Mexico/2017

Washington/2017

Maryland/2017

NCEES Certification/2011

LEED® Accredited

Professional/2009

NABCEP Certified PV Installation

Professional/2017

Education

Bachelor of Science in Electrical Engineering, University of Louisville, 1997

Professional Affiliations

- Institute of Electrical and Electronics Engineers (IEEE)
- National Society of Professional Engineers (NSPE)
- Louisiana Engineering Society (LES)
- Illuminating Engineering Society of North America (IESNA)
- Building Industry Consulting Service International (BICSI)
- American Society for Healthcare Engineering (ASHE)

Recent Experience

Northern Arizona University Wellness Center

Flagstaff, Arizona 260,000 sq. ft., 50 Million

A new health and wellness center on the campus of Northern Arizona University.

Mayo Clinic Hospital

Phoenix, Arizona 30,000 sq. ft.

Lighting and electrical design for various projects including renovations for 5 West and 3 East wings, support services building (SSB2) addition for information technology's employees and CT scan equipment replacement.

Navajo County Governmental Center – Electrical Service Replacement

Holbrook, Arizona

Electrical designer for this replacement of the electrical service and emergency generator for the Navajo County Governmental Center.

Banner Health – Corporate Data Center,

Phoenix, Arizona

Electrical designer for the corporate data center remediation project that entailed the addition of a new 500kVA/400kW redundant UPS and power distribution system to support the addition of 1,000 raised sf.

John C. Lincoln North Mountain Hospital

Phoenix, Arizona 92,000 sq. ft.

Electrical designer for this master plan, design and implementation for expansion of existing hospital, emergency department addition, operating suite renovation, loading dock, pharmacy, and six-story parking structure.

Banner Good Samaritan Medical Center,

Phoenix, Arizona 329,000 sq. ft.
Electrical designer for this renovation and addition plus tie-ins between the old and new MEP systems.

John C. Lincoln Deer Valley Hospital

Phoenix, Arizona 120,000 sq. ft.
Electrical designer for this redesign of existing site utilities for a patient bed tower addition.

Banner Estrella Medical Center – Women & Infant Services Nursery Expansion

Phoenix, Arizona
Electrical designer for this renovation reducing the size of the Family Waiting Area to accommodate a new Clinical Integration Station (CIS), workstation for CIS and expansion of Continuing Care Nursery.

Banner Good Samaritan Medical Center – Sterile Processing Department Equipment Replacement

Electrical designer for the replacement of two chemical sterilizers, three washers and two steam sterilizers.

New Orleans Convention Center Hall A Additions and Renovations

New Orleans 86,000 sq. ft. \$50,000,000
Alterations and additions to the existing convention center (sixth largest convention center in the country with a total of 1.1 million sq. ft.). Accomplished an extremely aggressive design/construction administration schedule so that the space was ready for the 2013 Super Bowl.

Owensboro Convention Center

Owensboro, Kentucky 160,000 sq. ft. \$36,000,000
Design of a new downtown events center that includes (3) exhibit halls, pre-function space, meeting rooms, kitchen, ballroom and future connector to adjoining hotel.

Alexandria Veterans Hospital Renovations for Oncology & Chemotherapy

Alexandria, Louisiana \$750,000
The Veterans Administration Hospital renovated approximately three thousand four hundred square feet of existing ICU patient area.

Arizona State University

Campus Electrical Distribution Study, including Load Flow Study, Fault Current Analysis, Coordination Study and creation of model in SKM PTW.

Various Projects in the following Facilities:

- Carl T. Hayden VA Medical Center in Phoenix, AZ
- St. Joseph's Hospital and Medical Center in Phoenix, AZ
- St. Luke's Medical Center in Phoenix, AZ
- Scottsdale Healthcare – Shea Medical Center in Scottsdale, AZ
- Mayo Clinic in Scottsdale, AZ
- Mayo Clinic Hospital in Phoenix, AZ
- Phoenix Baptist Hospital in Phoenix, AZ
- Banner Thunderbird Medical Center in Glendale, AZ
- Banner Baywood Medical Center in Mesa, AZ
- Lafayette General Medical Center in Lafayette, LA
- Our Lady of Lourdes Hospital in Lafayette, LA
- Kindred Hospital in Lafayette, LA
- Boise VA Medical Center

St. Luke's Health Systems Projects for various campus locations:

- 1 South Med Infusion
- SLMOP Mechanical/Electrical Upgrades
- 3 South Cath Lab 3
- Sterile Processing
- Blue Med Tent
- CMS Citing of the Operating Rooms Code Research
- Synchronization Switchgear Failure Troubleshooting
- 3rd Floor Nurse Station/Peds
- Sleep Study Remodel
- H.I.M. Relocation
- MSTI Expansion
- MMC Diagnostics/Medical Imaging
- MMC Sterile Processing
- MMC Surgical Lights
- Electrical Coordination Study for Fruitland Medical Office Plaza
- SDC for Fruitland Medical Office Plaza
- MRI Canopy
- PET/CT
- 2nd Cath Lab Build-out
- UPS Failure/Proposed Revisions to Electrical Distribution
- 6th/Hays
- 600 North Robbins Building Evaluation
- Nampa OB/GYN Associates
- Wood River Campus Sound Masking

Power System Studies:

- **Photronics** – Coordination Study and Arc Flash Hazard Analysis
- **Aptina (On Semiconductor)** – Electrical Distribution Study, 1-line diagram/Electrical Location Plan updates
- **SLHS (Downtown Campus)** – Electrical Distribution Study, Coordination Study, Emergency System Load Study, 1-line diagram/Electrical Location Plan updates
- **Kirtland Air Force Base Defense Threat Reduction Agency Building 20676** – Electrical Distribution Study, Coordination Study, Emergency System Load Study, 1-line diagram/Electrical Location Plan updates Arc Flash Hazard Analysis