

THOMAS BYERS, PE

CURRICULUM VITAE

January 1, 2016

EDUCATION

- University of Illinois, Urbana, Illinois, 1981
Bachelor of Science, Electrical Engineering

TRAINING

- IEEE Course: Protective Relaying Practices, 1982
- IEEE Course: Short Circuit Calculations and Protective Device Selectivity, 1983
- Autodesk Revit Training, Autodesk University, 2004
- IEEE PES/IAS Conference: NEC 2005 Selective Coordination & Seismic Requirements
- CEC Buildings and Appliances Office: 2008 Title 24 Lighting Standards
- IAEI Course: Analysis of Changes 2008 NEC
- Approximately 20 other continuing education courses and seminars

PROFESSIONAL REGISTRATION

- Licensed Professional Engineer, California (# E12690)
- Licensed Professional Engineer, Nevada (# 21388)
- Licensed Professional Engineer, Arizona (# 52949)
- Licensed Professional Engineer, Utah (# 8631845-2202)
- Licensed Professional Engineer, Minnesota (#52238)

PROFESSIONAL CERTIFICATION

- LEED[®] Accredited Professional

PROFESSIONAL AFFILIATIONS

- Institute of Electrical and Electronics Engineers (IEEE)
- Illuminating Engineering Society (IES)
- International Code Council (ICC)

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EXPERIENCE

More than 30 years of experience in electrical design and construction of commercial, residential, biomedical, light industrial and institutional facilities. Responsible for preparation of electrical contract documents for both consulting engineering firms and design/build contractors.

Areas of expertise include residential and commercial high-rise buildings, office campus environments, medium-voltage (15 KV) and (600 Volt) power distribution systems, lighting design and control systems and low-voltage signal systems.

Experienced with the utilization of IPD (Integrated Project Delivery) construction delivery methods, including BIM (5D), three-dimensional modeling with estimating and scheduling parametrics.

2011 – Present

Ivey Engineering, Inc.

San Diego, CA

Senior Consultant

Senior Consultant and Project Manager for Ivey Engineering, Inc., an engineering firm that performs expert witness, construction consulting and design services. Responsibilities include design and forensic analysis of electrical systems. Performs site inspections, testing, research, product analysis, cost estimating and is responsible for writing reports and testifying in depositions, hearings and trials.

2004 – 2010

Cupertino Electric

San Francisco, CA

Engineering Manager

Engineering Manager for a design/build contractor with annual construction costs totaling \$40 million. Preparation of electrical contract documents based on performance criteria while refining design with value-engineered proposals to meet budget constraints.

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Responsibilities included:

- Managing electrical department (engineers, designers, CAD operators) of 15 persons in preparation of design/build-level construction/ installation documents.
- Preparation of power system studies, including all electrical load calculations, short-circuit analysis, selective coordination and arc flash study.
- Preparation of lighting design, including photometric analysis, Title 24 documentation preparation and code compliant egress emergency lighting designs.
- Approve equipment submittal for procurement for switchgear, generators, including paralleling switchgear, UPS systems, automatic transfer equipment and lighting fixtures.
- Negotiate engineering fees with in-house project managers for electrical design fees, managed workforce and developed plans for employee growth.
- LEED documentation, including commissioning of electrical systems.
- Engineer of Record on all design/build projects.

Projects included:

- 170 King Street, San Francisco, CA – 189 condominiums
- The Infinity Towers, San Francisco, CA – 656 condominiums (4 buildings)
- Centennial Towers, South San Francisco, CA – office towers (12 and 21 story office and 650,000 sq. ft. garage)
- San Pablo Lytton Casino, San Pablo, CA
- Safeway Lifestyle Remodels, San Francisco Bay Area, CA
- InterContinental Hotel, San Francisco, CA – 550 guest rooms, ballroom, restaurant, retail
- Thunder Valley Casino and Resort, Lincoln, CA
- 750 KW Solar Photovoltaic Installation, Alameda, CA
- VNMOB Medical Office Building for Sutter Health (650,000 sf office), San Francisco, CA
- Radiance West, Block 10-384 condominiums, San Francisco, CA
- Bayer B3 Research Facility, San Francisco, CA

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1996 – 2004

Schwartz & Lindheim

Oakland, CA

Chief Electrical Engineer

Chief Electrical Engineer for design/build electrical contractor with annual construction costs of \$20 million. Preparation of electrical construction documents for commercial high-rise and office campuses for Oracle, EFI, Siebel.

Projects included:

- 555 City Center, Oakland, CA
- 2100 Powell Street, Emeryville, CA
- Concar Office Building, San Mateo, CA
- The Rotunda, Oakland, CA
- San Francisco MOMA parking structure, San Francisco, CA
- 350/520/600 Oracle, Redwood Shores, CA
- Symantec CC5, Cupertino, CA
- Data Centers for Siebel, Oracle, Morgan Stanley

1993 – 1996

Lawrence Berkeley Laboratory

Berkeley, CA

Facilities Electrical Engineer

Various laboratory, office and site modifications.

1992 – 1993

Gordon H. Chong & Associates

San Francisco, CA

Senior Project Electrical Engineer

Start-up electrical department for Architectural /Structural firm.

Projects included:

- VAMP Site Power Distribution, Menlo Park, CA
- USPS Main Post Office, Delano, CA
- Air National Guard Composite Dining/Medical Facility, Reno, NV

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1990 – 1992

Syska & Hennessy

San Francisco, CA

Senior Electrical Engineer

Project-level Engineer for national MEP consulting firm.

Projects included:

- Replacement Science Facility, McMurdo Station, Antarctica
- The Queen's Medical Facility, Honolulu, HI
- Mercy Southwest Hospital, Bakersfield, CA
- Coalinga District Hospital, Coalinga, CA
- San Benito County Jail/Juvenile Hall, Hollister, Ca

1989 – 1990

Skidmore, Owings & Merrill

San Francisco, CA

Project Electrical Engineer

Project Electrical Engineer for international multidiscipline architectural/structural/MEP firm.

Projects included:

- Newmark Tower, Seattle, WA
- 101 Second Street, San Francisco, CA

1987 – 1989

Marion, Carbatos, Tomasi

San Francisco, CA

Electrical Engineer

Electrical Engineer for consulting firm.

Projects included:

- Jet fuel Facility Renovations, McClellan AFB, Sacramento, CA
- Honor Farm Correctional Facility, Fresno, CA
- St. Luke's Hospital, Labor/Delivery & Recovery Suite

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1986 – 1987

Winzler & Kelly

San Francisco, CA

Electrical Engineer

Electrical Engineer for civil firm specializing in waste water treatment facilities.

Projects included:

- Miller Park Marina, Sacramento, CA
- Radar Air Traffic Control Facility, Moffett Field, NAS
- Alhambra Street Lighting and Traffic Signalization, CA

1981 – 1986

Marion, Cerbatos, Tomasi

San Francisco, CA

Electrical Design Engineer

Design Engineer for consulting firm.

Projects included:

- Snowmass Resort, Snowmass, CO
- General Mail Facility, Petaluma, CA
- Clos Pegase Winery, Napa, CA
- Campton Place Hotel, San Francisco, CA
- 212 Stockton Office Building, San Francisco, CA
- Applied Instruction Buildings, Moffett Field, NAS
- Naval Technical Training Center, Treasure Island, CA
- Substation and Underground Distribution System, NAS