

**Barry Biglari, PE**  
**Senior Electrical Engineer**  
**21466 Coralita Lake Forest, CA 92630**  
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### **SPECIALTIES**

- Ordinary and custom electrical power Generation/Cogeneration (Conventional and Photovoltaic), Power Distribution and Grounding systems through 34.5 kV, including Normal Power, Emergency /Stand-by, UPS, and multilevel redundant systems.
- Lighting, Switching, Dimming and Programmable Lighting Control Systems.
- Sustainable Energy Efficient Building Design per LEED guidelines and International Energy Codes and Standards.
- Fire detection and alarm systems, and other auxiliary low-voltage building systems like Data Distribution, Public Address, Security, and special systems for Mission Critical Facilities, and transportation facilities.
- Motor Control Centers, Supervisory Control And Data Acquisition (SCADA), and their interface requirements.
- Telecommunication systems, including LAN, WAN, and wireless systems.

### **EXPERIENCE**

- Extensive experience in consulting, facility assessment, programming, utility planning, contract administration, engineering, design, specification, due diligence, plan check, and documentation of electrical systems for diverse type of construction projects for buildings, sites, campuses, and facilities including mission critical and classified areas. Construction sectors include Residential, Commercial/Retail, Transportation, Industrial facilities, Data/Network/Operation Centers, Hospitality, Healthcare, Water/Wastewater, etc.
- Operations and Maintenance of electrical/electronic systems and equipment.
- Successful management and completion of projects from conception, programming, schematic design, design development phases; through preparation of construction drawings and bid or design/ build documents, permitting, commissioning and acceptance.
- Monitoring and control of project milestones, schedules and cost and other parameters.
- Preparation of precise As Built Documents on and offsite.
- Development of Criteria, Value Engineering, Peer Review, Code/ Standards and Criteria Compliance Review, Feasibility Studies, and preparation of Reports.
- Equipment selection, Factory Acceptance Test (FAT) witnessing, and acceptance.
- Business development, service/ fee proposals.
- Contract Management, Construction Administration/Management, Pre and Post Commissioning including Optimization of installed Systems.
- Effective utilization of AutoCAD, Revit, Excel, Word, Power Point, Projects, CPA, various engineering study, simulation analysis software including SKM and ETAP , Facilities Assessment and Construction Administration/Management programs.
- Practical application of NEC, NESC, other NFPA publications, IEC, BS, IEEE, API, UL, NEMA, ANSI, IESNA, EIA/TIA, BICSI standards, and other codes including International Energy Code, California Title 24, DSA, OSHPD.
- Proactive interface with owners, architects, engineers, contractors, developers, builders, facility managers, code officials, maintenance personnel, utility company representatives, and other construction team participants.

## **ENGAGEMENTS**

<u>Contract Engineer on various projects in CA, AZ, TX, Overseas</u> Project Engineer/Project Manager/Consultant/Subject Matter Expert	08/02 to Present
<u>TWF Consulting Engineers - Newport Beach, California</u> Project Manager/Project Engineer	02/98 to 07/02
<u>Power Trends Engineering - Austin, Texas</u> Project Engineer	08/92 To 01/98
<u>HBA Engineering and Development - Irving, Texas</u> Project Engineer	07/91 to 08/92
<u>ACR Engineering Inc. - Austin, Texas</u> Electrical Engineer	10/90 to 06/91
<u>I. A. Naman and Associates - Houston, Texas</u> Electrical Design Engineer	09/89 to 09/90
<u>Master Technology Services – Barcelona, Spain</u> Field Service Engineer	01/85 to 07/88

## **AFFILIATIONS**

National Society of Professional Engineers (NSPE)  
Institute of Electrical and Electronics Engineers (IEEE)  
Illumination Engineering Society of North America (IESNA)  
Building Industries Consulting Services International (BICSI)

## **EDUCATION**

Registered Professional Engineer in States of California and Texas  
Pennsylvania State University – BS in Electrical Engineering & Navigation Science (NROTC)  
Electrical and Electronic equipment Operations and Maintenance school  
ESDIT - Barcelona, Spain – MS degree in Telecommunications  
Los Angeles RSO certified

## **PERSONAL**

Dynamic, creative, resilient and quality oriented personality - an optimizer  
An inherently natural team player with organizational awareness and enthusiasm  
Perfect state of health, active in team and individual sports, fluent in English, Spanish, and Farsi

## **REFERENCES**

References and list of projects accomplished available upon request