



Joshua B. Wilkerson, P.E.

19122 CR 178  
Flint, TX 75762  
903-894-9125

Josh.wilkerson@daigleautomation.com

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### EDUCATION & AFFILIATIONS

- B.S., Electrical Engineering, Texas A&M University, College Station, 2000
- Professional Engineering License, State of Texas #98258
- Member of the National Fire Protection Association (NFPA)
- Certified for Underwriter's Laboratory (UL) panel fabrication

### WORK EXPERIENCE

Daigle Automation, Inc. - Flint, TX, Oct. 2005 - Present

*Vice President / Electrical Engineer*

In addition to the normal duties of bidding and project management as Vice President I also have performed the following work while at DAI:

- Delek Refinery, Tyler, TX - Various Power Projects
  - Electrical Engineering and Design for plant
  - Supply Electrical Equipment and Components
  - Power Loading Studies / MCC Design
- EPC, Inc. Whitehouse, TX - Various Hydrocarbon Dew Point and Cryogenic Plants
  - Electrical Engineering and Design for entire plants
  - Supply Electrical Equipment and Components
- VME Process, Whitehouse, TX - Glycol Unit & Production Units
  - Electrical Engineering Support for Desalter Control Panels
- Navajo Refining (Holly Corp.) - Artesia, NM
  - Electrical Engineering / Design Support
- Wynnewood Refining Corp., Wynnewood, OK - Diesel Hydrotreater & Vacuum Unit
  - Electrical Engineering / Design Support
- Integrated Flow Solutions., Tyler, TX - Ammonia Plants, Various SCR Heater Control
  - Electrical Engineering / Design Support
  - Supply Electrical Equipment and Components

CB&I -- Tyler, TX, May 2003 - Oct. 2005

*Electrical Engineer*

- Working with required disciplines to complete the electrical design of hydrocarbon processing plants to NEC as well as IEC standards.
- Preparing detailed specifications for all electrical equipment necessary for the plant to operate in a safe and accurate manner.
- Preparing inquiries, reviewing quotes, and preparing purchase requisitions for all electrical equipment as well as electrical bulk materials.

- Working very closely with design to ensure that all engineering drawings accurately portray the specified project.
- Providing technical assistance for shop and field fabrication, and completing a detailed checkout of the unit before it is released.
- Providing assistance with project proposals by completing a detailed estimate of what the job will require in the way of electrical equipment, bulk materials, engineering manhours, design manhours, and shop manhours.

#### Projects at CB&I

- Valero Refinery, Three Rivers, TX - SRU, TGTU, Hot Oil
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Materials
  - On-Site Construction and Field Start Up Support
- MAP Refinery, Detroit, MI - 3-SRUs, 2-TGTUs, 3-SWSs, 3-O2 Units
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Materials
  - On-Site Construction and Field Start Up Support
- Chevron Texaco Refinery, El Segundo, CA - Hydrogen Plant
  - Electrical Engineering / Design Support
  - On-Site Construction and Field Start Up Support
- Valero Refinery, Houston, TX - SRU, TGTU, ARU, SWS
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Components
  - On-Site Construction Support
- Valero Refinery, Paulsboro, NJ - 2-TGTUs
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Components
- Valero Refinery, Ardmore, OK - SRU, TGTU, Amine
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Components
- Sunoco Refinery, Westville, NJ - SRU, TGTU
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Materials
- Suncor Refinery, Sarnia, Canada - SRU, TGTU, Amine
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Materials
- MAP Refinery, Cattlesburg, KY - Oxygen Injection Units
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Materials
- GS Caltex, Yosu, Korea - SRU, TGTU, ARU, SWS Feed Package
  - Provided Electrical Front End Study

#### Petrofac - Tyler, TX, Jun. 2000 - May. 2003

##### *Electrical Engineer*

- Working with required disciplines to complete the electrical design of hydrocarbon processing plants to NEC as well as IEC standards.
- Preparing detailed specifications for all electrical equipment necessary for the plant to operate in a safe and accurate manner.

- Preparing inquiries, reviewing quotes, and preparing purchase requisitions for all electrical equipment as well as electrical bulk materials.
- Working very closely with design to ensure that all engineering drawings accurately portray the specified project.
- Providing technical assistance for shop and field fabrication, and completing a detailed checkout of the unit before it is released.
- Providing assistance with project proposals by completing a detailed estimate of what the job will require in the way of electrical equipment, bulk materials, engineering manhours, design manhours, and shop manhours.

#### Projects at Petrofac

- Orion Refinery, Norco, LA - Hydrotreater
  - On-Site Construction Support
- Williams Energy, Off Shore, LA - Methanol Regeneration Unit
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Materials
- Sinclair Oil, Tulsa, OK - PENEX Process Unit
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Materials
  - On-Site Construction and Field Start Up Support
- Fujairah Refining, U.A.E. - SRU, TGTU
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Components
- Severo-Yeniseysk, Krasnoyarsk Region, Russia - Crude Distillation Unit
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Components
- BP Amoco Refinery, Whiting, IN - Sulfur Degassing Unit
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Components
- Derdale International, Sakha Republic, Russia - Crude Fractionation Unit
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Materials
- Orion Refinery, Norco, LA - Naptha Hydrotreater Revamp
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Materials
- Flowtronex, Tyler, TX - Chemical Injection Units
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Materials
- Frontier Refinery, Cheyenne, WY - SCANFINER
  - Led Electrical Engineering and Design
  - Supplied Electrical Equipment and Materials
  - On-Site Construction Support

#### EQUIPMENT EXPERIENCE

Experience with estimating, designing, implementing, and commissioning the following Equipment:

- Medium Voltage / Low Voltage Switchgear (Cutler Hammer, Allen Bradley, Square D, Siemens)
- Motor Control Centers (Cutler Hammer, Allen Bradley, Square D, Siemens)
- Variable Frequency Drives (Cutler Hammer, Allen Bradley, Square D, Siemens / Robicon)

- Electrical Buildings, Power Transformers
- Control Panels, Nema 7 Starter Racks in Hazardous Locations
- Electrical Heat Trace Systems and Components
- Electrical Bulk Materials, wiring systems, raceway systems, grounding systems in accordance with the NEC and Hazardous as well as Non Hazardous Locations.