



TRAINING INSTITUTE, INC.
ELECTRICAL ENGINEERING DIVISION
Registered Engineering Firm in the State of Texas #F-006122
1-877-594-3156 • www.avoeedivision.com

A SUBSIDIARY OF MEGGER



QUALIFICATIONS BRIEF

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ZACHARY WRIGHTSIL, EIT
Electrical Engineer

SUMMARY

- Strong working knowledge of SKM Power Tools for Windows® electrical engineering software to create plant one-line diagrams and perform detailed analysis, including short circuit analysis, protective device coordination analysis, load flow, and arc-flash hazard analysis.
- Proficient in the use of AutoCAD.
- Excellent working knowledge of the NEC, IEEE, ANSI, NEMA and NFPA industry standards.
- Detail oriented with highly developed problem solving, verbal, and written communication skills.
- University of Oklahoma, Norman, Oklahoma, BSEE, August 2006.

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EXPERIENCE

Present – June 2006

AVO Electrical Engineering Division – Electrical Engineer

Assist electrical engineering staff with power system study projects by using commercially available software to create computer models and generate single-line drawings. Familiar with settings and ratings for circuit breakers, fuses, and protective relays.

2006 – 2004

Texas Department of Transportation

Construction Inspector

- Supervised roadway construction of government projects
- Completed daily work reports illustrating project progression

Academic Projects

Rally Pal

- Modified auto racing training tool in LabVIEW to measure and display real time acceleration values in hopes of improving lap times.

Extruder Head Troubleshooting Program

- Designed user-friendly PLC program to detect faults in extruder head in rubber forming process for Michelin, Ardmore, Oklahoma.
- Programmed Allen-Bradley Panelview 600 to display faults as they occur.

Home Automation System

- Designed security system using Motorola 68HC11 microcontroller to monitor eight door and window sensors.
- Programmed controls to automatically turn on heat or air conditioning dependent on temperature sensor readings.

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Skills

Software Knowledge

- Programming Language: Java, Assembly
- Math: MATLAB, Mathcad
- Circuit Design: OrCAD, PSpice
- Spreadsheet: MS Excel
- Data Acquisition: LabVIEW

Hardware Knowledge

- Circuit designing/testing
- PLC programming

Education

University of Oklahoma, Norman, Oklahoma
B.S. Electrical Engineering, August 2006.