David Dixon

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Design and Development Technician
Specialist in the design and development of electrical transformers

Modeling and simulation software
- ALGOR
- COMSOL
- CFD

Professional standards
- National Electric Codes
- NEMA
- ANSI
- IEEE
- EEI

Sputter deposition equipment
- Veeco Cymetra
- Alkatel Comptech
- CVC Connexion
- Unaxis Corona
- Emerald

Plasma-enhancement deposition equipment
- Unaxis Versalock

Wafer annealing equipment
- Oyster Magnetics
- Lindberg/BlueM
- Despatch Industries

Profilometry
- KLA Tencor
- P2, P15, P20

Ellipsometry
- KLA Tencor
- ASET F5

VSM and Kerry magnetometry
- DMS
- ADE Technologies

Summary of Qualifications

- Proficient in reading and development of electrical blueprints
- Strong ability to troubleshoot various kinds of electrical and electronic systems including electronic controls, vacuum systems, pumps, valves, sensors, actuators, and frequency drives
- Extensive experience in thin film device fabrication and materials characterization
- Proficient with AutoCAD, OPS (design of magnetics) and SolidWorks (2006-08)
- Knowledgeable of a wide variety of electronics and electronic equipment

Professional Experience

Design and Development Technician (April 2009 to Present)
Harding Transformers (Alpharetta, GA)
Harding engineers and builds custom transformers, inductors and choke for medical and military applications.
- Design, develop and optimize a wide range of our product lines, with an emphasis on engineering transformers for power quality, drive isolation, power electronics, battery charging, factory automation, motor starting and industrial furnaces
- Heat management analysis to create products with high quality and reliability, and reduced costs.

Process Support Technician (Jan 1998 to Apr 2009)
Benning Technology (Alpharetta, GA)
Benning specializes in thin-film sputter deposition and plasma enhancement.
Highly skilled at the efficient operation of:
- Thin-film device production tools
- Sputter deposition equipment
- Plasma-enhancement deposition equipment
- Ion-beam deposition and thin film etching
- Wafer annealing equipment
- Profilometry
- Ellipsometry
- Quasi-static wafer level tester
- Hysteresis loop tracer
- VSM and Kerry magnetometry
- Scanning probe microscopy
- Scanning Electron Microscope
- Stress measurement
- Sheet resistance

Electrician (Oct 1989 to Jan 1998)
Ellis Electric, Inc. (Detroit, MI)
- Installed, maintained and repaired commercial electrical systems, including electrical distribution systems and facility equipment.

Education

- Associate Degree in Electrical Engineering (UND)
- Continuing Education (Wittnauer Community College)
- Certified in Computer-Aided Drafting (CAD)
- Certified in Electrical and Electronic Systems
- Certified in National Electrical Codes (6-month course, full-time)