

David Dixon

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SUMMARY OF QUALIFICATIONS

Knowledge of electronics and electronic equipment.

Experience in student training and operating University-based laboratories.

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 in reading and development of electrical blueprints.

Proficient with AutoCAD, OPS (design of magnetics) and SolidWorks (2006-2008).

Experience in using modeling and simulation software ALGOR, COMSOL and CFD.

Familiar with National Electric Code, with NEMA, ANSI, IEEE and EEI standards.

PROFESSIONAL EXPERIENCE

Design and Development Technician– Harding Transformers, Alpharetta, GA, April, 2009-Present

Design, development and optimization wide range of Custom Transformers, Inductors and Chokes.

Ø Magnetics heat management and profitability (high quality, reliability and low cost).

Ø Customize transformer for typical applications: Power Quality, Drive Isolation, Military Standard

Transformer, Medical Equipment, Power electronics, Battery Charging, Factory Automation, Motor

Starting, Industrial Furnaces

Process Support Technician - Benning Technology, Alpharetta, GA, 1998-2009

Operation and maintenance of thin-film device production tools

Sputter deposition (Veeco Cymetra, Alkatel Comptech, CVC Connexion, Unaxis Corona and Emerald)

Plasma-enhance deposition (Unaxis Versalock)

Ion-beam deposition and thin film etching (Veeco)

Wafer annealing equipment (Oyster Magnetics, Lindberg/BlueM, Dispatch Industries

Process control and thin film characterization:

Profilometry (KLA Tencor P2, P15, P20); Ellipsometry (KLA Tencor ASET F5); Sheet resistance (Tencor Prometrics); Quasi-static wafer level tester (Phase Metrics); Hysteresis loop tracer (SHB instruments); VSM and Kerr magnetometry (DMS, ADE Technologies); Scanning probe microscopy (Veeco Dimension 3100); Scanning Electron Microscope (Applied Materials VeraSEM); Stress measurement (KLA Tencor FLX-2908)

Electrician - Second Shift, Inc. / Ellis Electric, Inc., Detroit, MI, 1989-1998
Installed, maintained, and repaired commercial electrical systems such as electrical distribution systems and facility equipment.

EDUCATION

Associates Degree in Electrical Engineering - UND
Continuing Education - Computer Aided Drafting, Electrical and Electronic System, National Electrical Code, Washtenaw Community College, Ann Arbor, MI