



Our new 1000 square foot lab is equipped with the following instruments:

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22 Years of Electric Motor Design,
Development, and Testing Experience

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Eric S. Oberlin

Designer, Motor Fabrication, and Testing



An experienced firm specializing in the design and prototype fabrication of electromagnetic devices including electric motors, generators, and actuators.

- *Design
- *Software
- *Consulting
- *Cost Reduction
- *Prototypes
- *Training
- *Testing
- *Analysis

Design of AC Motors

- ~ Single Phase
- ~ Polyphase
- ~ Permanent Split Capacitor
- ~ Capacitor Start
- ~ Split Phase
- ~ Synchronous
- ~ Shaded Pole
- ~ Series Wound Universal

Design of DC Motors

- ~ PMDC
- ~ Brushless DC
 - Inner Rotor
 - Outer Rotor
 - Axial Air gap
- ~ Switched Reluctance
- ~ Wound Field DC
 - Series
 - Shunt
 - Compound

Design of Stepper Motors

- ~ PM Stepper
- ~ VR Stepper
- ~ Hybrid Stepper
- ~ Associated Drives

Drawings

- ~ Hard copy & electronic format

Consulting

- ~ Design Review
- ~ Analyze production problems
- ~ Review manufacturing systems
- ~ Improve design to fit systems
- ~ Minimize new parts
- ~ Recommend appropriate improvements

Prototypes

- ~ All Motor types and sizes
- ~ Procure parts and laminations
- ~ Subassemblies and assemblies

Facilities

- ~ Machine Shop
- ~ Winding Machines
- ~ Varnish Facilities
- ~ Test Lab

Performance Testing

- ~ Speed-Torque, Current, Efficiency, etc.
- ~ Magtrol Equipment
- ~ 0 to 7 Kw pk.
- ~ Specialized S-T equipment
- ~ Thermal tests
- ~ Thermal Resistance
- ~ Thermal Capacity
- ~ Heat Aging test
- ~ Segregation of Losses

Analysis

- ~ Design
- ~ Failure
- ~ Performance
- ~ Components
- ~ Feasibility Study

Software

- ~ Brushless DC Motor
- ~ Permanent Magnet DC Motor
- ~ Universal Motor
- ~ Shaded Pole Motor
- ~ AC Induction Motor

Training

- ~ SMMA Courses
- ~ Basic Motor Theory
- ~ Fundamentals of Electric Motor Design
- ~ Permanent Magnet DC Motor
- ~ Brushless DC Motor
- ~ Switched Reluctance Motor
- ~ Motor Fundamentals for Appliance Engineers
- ~ Universal Motor
- ~ Cost Reduction
- ~ Customized courses
- ~ In-house or internet based

Cost Reduction

- ~ Set Up Program
- ~ Individual Projects
- ~ Value Analysis