

Etti Simon

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PRODUCT DEVELOPMENT ENGINEER QUALIFICATIONS

Analytical and results-driven professional with expertise in design and development of electric motors and water heaters. Accomplished in concept project manufacturing, 3D modeling, machining, and fabricating. Advance technical projects from concept to finished product; collaborate with cross-functional teams in research design/development, testing/analysis, prototype fabrication, inspection, and critical issue resolution. Manage mass production, tooling, aerospace, and advanced manufacturing processes projects with an emphasis on gathering patents.

AREAS OF EXPERTISE

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| → Product Design | → Process Improvements | → 3D Modeling |
| → Prototype Development | → Optimizing Manufacturing Efficiencies | → Fabrication/Welding |
| → Tooling Component Design | → Machining of Complex Components | → Project Development Quoting |
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PROFESSIONAL EXPERIENCE

A.L. SANDERS CORP., Madison, WI • 2006-Present

Model Maker: Provide critical support to the organization's engineering staff by designing and developing innovative electric motors and water heaters. Play a key role in concept project manufacturing as well as in new product realization and design. Develop component products with extremely tight tolerances and in highly time sensitive environments.

Key Results:

- Worked collaboratively with engineers, team leaders, and other key team members in development of components.
- Interpreted and designed components utilizing drawings, sketches, and models. Conceptualized, designed, and machined tooling components in support of manufacturing operations.
- Managed 3D modeling and machining in development of tooling and prototype projects.
- Utilized CNC and manual machine tools to fabricate new concept electric motors and water heaters.

BCR TURBINES, Inc., Brookfield, WI • 2001-2005

Manager/Toolmaker: Collaborated with NASA, NAVY, and civilian customers in jet engine and unmanned air vehicles construction and in bringing engines into production; performed turning, milling, grinding, fabricating, inspecting, brazing and balancing functions in development. Machined at extremely low tolerances; built rotating assemblies to accuracies to within .00005" at rotational speeds of 170,000 RPM.

Key Results:

- Developed methods, tooling and fixtures for high stakes prototyping and long run production.
- Managed product realization and design, wrote and documented test procedures, and tested/analyzed turbine components. Executed combustion research and testing.
- Streamlined manufacturing processes to optimize efficiencies, decrease labor costs, and maximize profits.

COMPLEX AMERICAN METAL PRODUCTS, Brookfield, WI • 2000-2001

Tool Room Machinist: Developed hospital beds and high-end exercise equipment components prototypes. Troubleshoot, repaired and tested stamping and forming dies and construction of tube bending dies. Conceptualized, designed, and constructed pneumatic high-production robotic weld fixtures and assembly fixtures.

TECHNICAL EXPERTISE

Manufacturing Technologies: 4 Years/2 Years Apprenticeship Program, Ulster College, Brookfield, WI

Technical Expertise: Microsoft Word & Excel, Solid Works, ProCAM, Patent Searching • Product Realization