

Jim Worrell

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Related Experience

Mechanical Engineer / Project Manager, Product Level Control, Inc., 2001– 2011 Burnsville, MN

Product Level Control is a small business that manufactures made-to-order automated industrial equipment systems for the environmental remediation industry. www.productlevel.com

- Design air and water treatment systems that meet client performance specifications
- Manage multiple projects simultaneously
- Design custom ordered systems to meet time and materials budgets
- Optimize designs for manufacturability and cost effectiveness
- Interact with clients' Engineers regarding all design aspects of their systems
- Prepare submittals for client approval of design and components
- Coordinate mechanical and electrical engineering work and timelines
- Provide technical guidance to sales regarding specifications, costs and capabilities
- Rapidly prepare preliminary designs for sales to accompany quotes for clients
- Supervise manufacturing of equipment, guiding shop personnel as necessary
- Oversee coordination of material acquisition for JIT delivery whenever possible
- Travel to clients' sites to start up, shakedown, diagnose and repair systems
- Provide on-site operation and maintenance training to clients' field personnel
- Construct Operation & Maintenance manuals to accompany systems
- Provide mechanical and electrical technical support and troubleshooting
- Troubleshoot and repair electrical control panels
- Draft prints, layouts and schematics using AutoCAD
- Test manufactured equipment for quality and performance assurance

Manufacturing Engineer, Northern Tool + Equipment, Faribault, MN 1997– 2001

Northern Tool is a privately held company that manufactures equipment such as generators, receiver hitches, sprayers, log splitters and air compressors for sale through Northern Tool stores and catalogs. Northern Tool was formerly known as K-BAR Industries.

- Designed and specified assembly tooling and fixturing across all product lines
- Designed and specified packaging across all product lines
- Designed and specified test equipment across all product lines
- Drafted blueprints for all parts designed using AutoCAD Mechanical Desktop
- Developed, implemented, and improved assembly processes
- Solved assembly, packaging, and material handling problems on the shop floor
- Wrote manuals for test procedures
- Volunteer member of company's Quality Committee
- Apply Kaizen philosophies to manufacturing processes

Design Engineer, Northern Tool + Equipment, Faribault, MN

1997– 2001

- Designed receiver hitches for pickups and SUV's
- Wrote installation manuals for receiver hitches
- Designed for manufacturing using laser, plasma punch, press brake, etc.
- Designed hydraulic backhoe attachment for skid steer loaders
- Drafted blueprints for all parts designed using AutoCAD Mechanical Desktop

Other Experience

**FORTRAN Computer Programming Tutor,
University of Minnesota, Mankato, Mankato, MN**

1995 –1996

- Enhanced students' understanding of FORTRAN programming
- Graded students' completed programming assignments

Education

Bachelor of Science, Mechanical Engineering (BSME)
Minnesota State University, Mankato
Mankato, MN
(This is an ABET accredited program.)

1997