

# Rob Mohr Davenport, Iowa

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**EDUCATION**     **Iowa State University**, Ames, Iowa.  
Baccalaureate Engineering, Major Industrial, Minor Mechanical 1981.  
Completed 211 credit hours on schedule, 4 years, 1977-1981.

**EIT**, (Engineer in Training) State of Iowa 1981.  
Diploma [BS E] in Industrial Engineering, May 1981.  
Coursework focus: *Applied general engineering*.

**Drake University**, Des Moines, Iowa.  
Fall 1983. Coursework in German.

**Northeastern University**, Boston, Massachusetts.  
Fall 1984. Coursework in Civil Engineering.

**BlackHawk College**, Moline, Illinois.  
1988 Microprocessor Assembly Language.

**Chicago Berlitz Language School**, Chicago, Illinois.  
1990 Introductory Spanish

**Illinois Institute of Technology**, Chicago, Illinois.  
January 1993. Illinois Professional Engineering Review, mechanical engineering division.

**Eastern Iowa Community College District**, Davenport, Iowa.  
October 2001 - March 2002 SMAW, GMAW, GTAW Welding series.

**OBJECTIVE**     Best of class performance and continuous learning and improvement with the goal of meeting and besting the immediate competition to yield growth in margins and profit, both personally and to the organization.

**CORE SKILLS**   Work measurement, manufacturing process routing, welding, machining details, AutoCad m-space & p-space, SolidWorks, sheet processing, planning, lean agile Kaizen, CNC g-codes, metrology, work cells, 50 wpm typing, Linux, unix, perl, html, Excel, ASME Y14.5-94, and L<sup>A</sup>T<sub>E</sub>X a document preparation system.  
Applied math, applied statistics, applied engineering, applied lean manufacturing, applied financials.

**INDEPENDENT PROJECTS**   Flexible manufacturing acrylic thermoform cell, GE Structural Plastics.  
**SKILLS**           AutoCad skills including wire frames, m-space, p-space, SolidWorks 3-d modeling basic certification. Versed on architectural detailing as well as ANSI 14.5Y geometric and local shop protocols.  
g-codes proficient m-coding adequate.  
All aspects and current practise per job costing estimating and quotations. Can be MOST certified on an as need basis.  
Lean manufacturing, industrial engineering concepts and techniques, design for manufacture.

WORK  
EXPERIENCE

**KickIt Design**, (May 2001 – present)

AutoCad layouts, wire frames, redlines, annotations. Router board designs and fabrications.

**GE Plastics Denver, Colorado**, (Jan 1999 - February 2001)

AutoCAD operator, CNC programmer, router operator, redlines, structural skylight layout and submit to client. HTML coding, skylight design, skylight rigging.

Applied 3-d wire frame methodology to CAD models for structural skylights.

Designed and implemented a company website to disseminate specs, product info, and application data as well as collecting feedback via autonomous email.

Developed a rigging method for large frame structural skylights to speed installation, hence increasing market share, margins, and customer margins.

Expanded the capability, accuracy, and setup speed for a CNC router via a software programming technique. Additionally, improved part cycle time, cut quality, and yield via appropriate router bit geometry; high twist.

**Stanley Aviation Corporation Aurora, Colorado**, (October 1997 – July 1998)

Manufacturing process engineer for client companies such as Boeing, Gulfstream, Sikorsky producing airframe parts and subassemblies. Development of bill of material, process routes, work order instructions, finishing operations, and material dispositions with respect to in house process specs, Mil-Specs, and specific air manufacturers' requirements. Lead the design of a hydraulic circuit to fail-safe a Teledyne Pines bender from having a tube mandrel upset. Produced and maintained AutoCad mylar tube assembly layouts for hot and cold ducting pressure ducting. Designed, developed, adapted work cells for ongoing and new contract requirements to win competitive bidding as well as maintain cost margins to achieve company growth.

**AutoTron Longmont, Colorado**, (June 1997 – October 1997)

Project engineer tasked to manage a multi plant hardware consolidation. Developed project outline, goals, budget, and schedule. Collected info, recorded data, grouped facts. Performed analysis using standard industrial engineering techniques including Gantt charts, process means, standard deviations, Pareto, and lean operating. Produced a nickel addition to EBITDA per stock share.

Autotron is a tier one supplier to Toyota, Ford.

Autotron is a division of the Deflecta-Shield Corporation

Autotron is a manufacturer of auto-SUV-truck air deflectors

**Wolf's Bagels Boulder, Colorado**, (April 1996 – June 1997)

Baking operations for headquarters as well as three satellite outlets. Developed, designed, and directed the fabrication and installation of a capture device for diesel truck lift gate to prevent dough racks from falling off during loading, trans shipment operations. Designed a replacement proof rack utilizing non rust, Ryerson Fiberglass square stock sections. A key specification of this design being a degree of flexure to allow for working conditions.

**Eldora Mountain Resort Nederland, Colorado**, (January 1996 – April 1996)

A day skiing area on US Forest Land approximately 20 miles west of Boulder, Colorado, base elevation 9550 feet, 1400 feet vertical, 685 acres with about 25 percent expert terrain. Lift operations with other tasks as required. Snow report 303.440.8700

**Sasib Packaging Chicago, IL**(September 1995 – January 1996)

Process, project, and industrial manufacturing engineer, contract, to support and aid Sasib Packaging, an Italian owned organization that builds custom engineered packaging process equipment that is able to box or film package dry, liquid product. Duties included estimation of labor, material, setup, and tooling costs for inhouse fabrication as well as for outside buys. Several successful value engineering projects.

Provided datums to improve top plate machining costs from \$2,500 to \$ 250

\$35,000 margin improvement due to change to extrusion section for previous machined heater rolls.

Changed engineering spec from a rigid to flexible coupling to yield cost, margin, and performance improvements. Lower machining effort and improved location constraints.

Design protocol from hardwire to bus control, packaging systems.

**Ready Metal Manufacturing Chicago**, (July 1994 – September 1995)

Process engineer for private store fixture fabricator, approximate 350 payroll, and the focus on clients such as Sears, Firestone Tire Retail, Circuit City, B. Dalton Books.

**Downtime Chicago, Illinois**, (May 1994 – June 1994)

Unscheduled downtime between contract assignments.

**Prep for board exam**, (February 1994 – April 1994)

Scheduled downtime to prepare for sitting to take the Illinois Professional Engineer examination, mechanical engineering division. This is an 8 hour examination. At that time the general was no longer offered, hence the need to declare a division. The morning consists of four free hand, essay style problems, and the afternoon session being problem sets with multiple choice answer selections. A passing score is 70, I pulled a 66 score on my first attempt.

**Legatt & Platt Chicago, Illinois**, (October 1993 – January 1994)

Industrial engineer tasks including work measurement for manufacturing cells. Fashion Bed Group is a division of Legatt & Platt that produces metal bed frames that are sold through main retailers such as Montgomery Wards as well as through an extensive network of single niche retail stores called the Bedding Experts. This work measurement project supported lean methods, appropriate tooling, set up improvement, quality issues, process documentation, and cell cycle throughput. Contract assignment via Technipower.

**Downtime Chicago, Illinois**, (August 1993 – October 1993)

Downtime between contract or direct assignment.

**Ready Metal Manufacturing Chicago, Illinois**, (April 1993 – August 1993)

Contract assignment to work measure, time study, mig, tig, and resistance welding operations via ESPO Engineering.

**Richard Speilman Precision Electronics Chicago, Illinois**, (December 1992 – April 1993)

Project engineering assignment to punch list a design build monorail material handling system. Steel buys, trolley hanger fabrications, strut tube crimp nut design as well as setting tool, quotations.

**Prater Industries Chicago, Illinois**, (November 1990 – December 1992)

Industrial, manufacturing engineering tasks to support an OEM process equipment manufacturer. Several designs for manufacturing projects.

**The George Evans Corp Moline, Illinois**, (October 1987 – November 1990)

Industrial engineer to support operations.

**Mohr Brothers Davenport Iowa**, (October 1986 – August 1987)

Assistance to family operation during a time of change due to illness to one of the principals.

**Ricci Construction Boston, Mass**, (July 1985 – September 1986)

Member of a concrete foundation crew.

**General Dynamics Quincy Massachusetts**, (November 1983 – July 1985)

Industrial engineer in support of shipyard operations for Navy Sea Lift new construction contract. Consisting of five 60,000 ton roll on, roll off ships.

**Firestone Tire & Rubber Company Des Moines, Iowa**, (July 1982 – October 1983)

Industrial engineer for a plant work measurement project.

**Mohr Bros Farm Davenport Iowa**, (May 1981 – May 1982)

Miscellaneous tasks on a grain and livestock farming operation.

REFERENCE Available per phone interview or site visit.