

Robert de Groot

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Innovative Mechanical Designer

CAD/CAM Software	Quality & Continuous Improvement	Project Management
Unigraphics • Solid Works • Solid Edge, AutoCAD • VisiCAD • MasterCAM • Machining Strategist	Six Sigma Greenbelt • FMEA • Kaizen • SIPOC • Statistical Evaluation • Root Cause Analysis	Network Diagrams • Project & Communication Planning • Earned Value Concepts • Risk Management

Strengths

- ▲ Honours graduate with 10+ years' progressive and diverse experience in Mechanical Design.
- ▲ Verifiable history of innovation in design, and process improvements.
- ▲ Advanced knowledge of Microsoft Office and CAD/CAM software: Solid Works (6000+ hours); Unigraphics (6000+ hours); excel in learning new CAD applications.
- ▲ Demonstrated skills in identifying problems and finding appropriate solutions; knowledge of analytical techniques, such as FEA:
"Robert continues to challenge himself with difficult projects...he makes improvements where others have not." - Team Leader
- ▲ True team player who works without friction with diverse peoples:
"Robert is without ego or arrogance...respects the core values at Hercules and reflects how people should act." - Team Leader
- ▲ Enrolled in Project Management Professional Development Program through McMaster University with expected completion in 2008.

Professional Experience

HERCULES INJECTION MOLDING SYSTEMS, Cobourg, ON 2004-present
Global market leader of injection molding equipment with 2006 sales approaching \$1 billion.

Tooling Designer

Designed PET molds ranging from single cavity prototypes to 144 cavity production molds; collaborated with engineering team, and machine and hot runner designers; strategized continuous process improvements; used PDM equivalent software (Teamcenter), and MRP equivalent software (Baan).

Selected Accomplishments:

- ▲ Developed an easy to use standardized process in the form of an Excel tool, which resulted in reduced scrap and saved \$200,000 in its first year.
- ▲ Led team of 12, undertook a 6-month project producing a project management and training tool, a mold design manual, which standardized drawings and processes; this initiative shaved 10% from project timelines, and improved product quality by over 25%.
- ▲ Charged with scheduling project designs and stepping into roles of Production Engineer and Team Leader, as necessary.
- ▲ Chosen to represent unit of 6, and attend Greenbelt training which has significantly improved ability to evaluate an idea's viability, and make related recommendations.



BENNETT PRECISION TOOLING Pty Ltd., Sydney, Australia 2003-2004

Leading designer and manufacturer of Injection Molds, Blow Molds, Special Purpose Machines, Gauges, Precision Machining, and Grinding.

Mechanical Designer / Product Designer - Prepared engineering drawings for the manufacture of injection, blow and vacuum mold tools, and designed electrodes for use in their manufacture.

Selected Accomplishments:

- ▲ Recognized for work excellence with extension to temporary business visa.
- ▲ Designed 10 innovative “one time use” injection molded medical devices.

ATS AUTOMATION TOOLING SYSTEMS, Cambridge, ON 2000-2003

A global manufacturer of automation technology for micro-electronic and telecommunications industries.

Senior Product Designer – Developed all working drawings for prototypes, and for customer proposals; designed prototype tooling and fixtures for manufacturing and inspection.

Selected Accomplishments:

- ▲ Contributed to team that produced 3 winning micro-electronic products: heat sink, plastic heat sink clip (now patent pending) and compact server fan.
- ▲ Prepared product certification for export implementing foreign safety requirements. Customers include Intel, Dell and Hewlett Packard.

ULTRATECH TOOL AND GAUGE, Cambridge, ON 1999-2000

Mechanical Designer/Draftsperson

TECHNICAN PACIFIC INDUSTRIES, Brantford, ON 1996-1999

Mechanical Designer

Education & Training

Project Management Professional Development Program - Master Certificate - expected completion in 2008 - first course achieved over 90%
McMaster University/CDI

Mechanical Engineering Technician - Honours Graduate
Conestoga College

Metal Machining & Manufacturing Techniques - Graduated top of class
Mohawk College

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