

Nathan Ransom

BASc Mechanical Engineering

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Skills Summary

3D Modelling: Solidworks, Fusion 360, AutoCAD
Design: Jigs, fixtures and mechanical assemblies
Prototyping: Additive manufacturing, Hand tools, Machine shop tools
Manufacturing: Automotive, welding and injection moulding experience
Research: Design of experiments and material testing
Communication: Great written and verbal skills

Education

University of Waterloo	BASc. Mechanical Engineering
2010-2015	Welding and Joining Specialization

Experience

Technical Lead, May 2016 – Apr 2017
InkSmith Ltd., Kitchener, ON

- Responsible for managing fleet of 3D printers
- Contract design and custom 3D printing work for clients
- Writing and filing all technical documentation
- Website design and management

Research Assistant and MASc Student, May 2015 – Jan 2016
University of Waterloo, Waterloo, ON

- Project scheduling and mapping research goals
- Heat treatment and resistance spot welding of high strength steel
- Technical presentations of conducted research to industry partners

Engineering Student, May 2014 – Aug 2014
Dynaplas Ltd., Scarborough, ON

- Investigated new technologies for process improvement
- Trained colleagues in use of additive manufacturing prototyping equipment
- Assisted with injection moulded part measurements on quality assurance equipment

R&D Engineering Assistant – Joining Technologies, Sept 2013 – Dec 2013
Promatek Research Center - Cosma International, Brampton, ON

- Created design of experiment for new R&D projects
- Supervised of experimental tests at third-party facility
- Presentation of test findings to industry partners
- Design of welding test rigs using Autodesk Inventor

Experience

Junior Mechanical Designer, Sept 2011 – Dec 2011, Jan 2013 – Apr 2013

Rombald Inc., Waterloo, ON

- Performed mechanical design calculations for cooling load and water heater sizing
- Assisted in selection of mechanical equipment in building systems
- Conceptual, preliminary and detailed designs of mechanical building services with AutoCAD
- Assisted in the preparation of project documentation

Engineering Assistant, May 2012 – Aug 2012

Swallow Acoustic Consultants LTD., Mississauga, ON

- Assisted engineers with onsite measurements of noise and vibration.
- Perform acoustical assessment through computer modelling.
- Preparation of testing equipment and report materials.

Technical Assistant, Jan 2011 – Apr 2011

Keewatin-Aski Ltd. Consulting Engineers and Architect, Sioux Lookout, ON

- Responsible for preparing AutoCAD drawings and plans in concept, tender and construction stages for engineering and architectural projects.

Projects

3D Printer Design

- Mechanical design for an easy-to-source and assemble 3D printer for schools to use as a class project.

3D Printed Trophy

- Designed and built 2 trophies for Accelerator Centre awards gala.

Web Design

- Ongoing projects for personal websites

Interests

Varsity Curling, *University of Waterloo*

- 2014 CIS National Champions
- 2013 CIS Silver Medal

Curling Coach, November 2007 – March 2010

Sioux Lookout Golf and Curling Club, Sioux Lookout, ON

Recreational sports

- Soccer, hockey, slow-pitch, volleyball, golf, mountain biking, squash

References

Available upon request