

Nathan Singh, P.Eng.

Mechanical Engineer

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\$450K

Annual savings

31%

Less downtime

\$1.4M

Line upgrade

PROFESSIONAL SUMMARY

Mechanical engineer with 4 years of experience in design, manufacturing and equipment reliability. Licensed in Ontario; reduces costs and downtime and delivers designs to CSA and ASME standards.

CORE SKILLS

SolidWorks and AutoCAD

GD&T

FEA (ANSYS)

Process improvement (Lean Six Sigma)

Pressure vessel design (ASME)

Preventive maintenance

Project management

CSA B51 / B52

PROFESSIONAL EXPERIENCE

Mechanical Design Engineer, Steel City Manufacturing *Hamilton, ON | Jun 2022 – Present*

- Designed 25 equipment and tooling projects, saving \$450K in annual operating cost
- Cut unplanned downtime by 31% with reliability-centred maintenance
- Used ANSYS to optimize brackets, reducing material use by 18%
- Lead a cross-functional team of 6 on a \$1.4M line upgrade

Engineer-in-Training, Great Lakes Fabricators *Burlington, ON | Jun 2020 – May 2022*

- Produced fabrication drawings and BOMs for 60+ assemblies
- Led a 5S initiative that improved workspace efficiency by 15%

EDUCATION

- Bachelor of Engineering, Mechanical – McMaster University (2020)

LICENCES & CERTIFICATIONS

- Professional Engineer (P.Eng.) – Professional Engineers Ontario
- Lean Six Sigma Green Belt
- SolidWorks Certified Professional (CSWP)