

Joshua Lehman

Mechanical Engineering/Product Design

Highly skilled, Motivated, Self-starter with 10+ years of Mechanical Engineering, Product Design, CAD Drafting, Automation, Robotics, Programming and Graphic Design experience. Excellent written and verbal communication skills. Committed to achieving goals, maintaining integrity and effectively managing

Personal Data

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Website

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Social Media

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Key Skills

- Mechanical Engineering
- Product Design/CAD Drafting
- 3D Modelling, Surfacing
- Project Management
- Finite Element Analysis
- Automation/Robotics/3D Printing/Fused Deposition
- Electrical Engineering/PCB Layout/Circuit Design
- Human Machine Interface
- Programming (C++, C#, VB)

Proficient Software

SolidWorks, Autocad

Expert

Adobe CS6, Blender

Expert

ANSYS 16

Advanced

Autodesk Eagle

Intermediate

Interests/Hobbies

Computer Programming, Mathematics, Electronics Engineering, Snowboarding, Mountain Biking

Experience

2006/10 - **Mechanical Engineer/Product Designer/Project Manager**

2018/01 *Nye Manufacturing Ltd./Nye Thermodynamics Ltd. Mississauga, ON*

- Designed custom hydraulic attachments/quick couplers for heavy construction equipment (hydraulic excavators, wheel loaders). Served the construction, demolition and mining industries across North America.
- Consulted with professional engineers to revise designs, certify and stamp drawings of several load lifting devices at construction sites across the GTA.
- Worked with customers to design cost-effective, efficient solutions to very specific problems. Usually under tight deadlines, two-three week turnaround.
- Facilitated the design of new major product lines: Excavator mounted Engine Block Extractor/Crusher; 360 degrees rotating custom hydraulic attachment for extracting and processing used automobile engines into finer sortable sizes.
- Creation and maintenance of engineering/manufacturing drawings, entering work orders into ERP system and alerting purchasing department when ready to order. Organized the procurement of new materials from around the world.
- Managed and coordinated the installation of Infor Visual Mfg. ERP software suite, including training, SQL Server database upgrades, custom metrics reports for executives using SQL Server and SSRS.
- Produced high-quality photo-realistic renderings of products from existing 3D models used for manufacturing. Utilized open source program Blender and Adobe Creative suite to accomplish this.
- Focused on improving safety and increasing productivity in manufacturing through the implementation of lean principles: Six Sigma Quality, Kanban Inventory, Standardization, Continuous Improvement and JIT.
- Coordinated the successful patent certification of several major product classes. Familiar with the legal process of applying for, and providing the engineering/operational information required by intellectual property Lawyers.
- Successful application and receipt of \$50,000 grant towards the training of the Engineering department, via the Yves Landry Foundation. Took multi-day SolidWorks Essentials Training with Javelin Technologies (Oakville).
- Installed/programmed Siemens Micromaster VFD AC drive controllers to regulate the HVAC system in a large welding shop. The installation features a custom user interface. This upgrade resulted in a 20% increase in air quality during periods of heavy welding and a 30% overall decrease in HVAC power consumption year over year.
- Organized the retrofit of old gas-discharge lights to high efficiency T8 fluorescent hi-bay units. Installation of skylights/solar panels for further energy savings and increased light quality for welding shop employees.

Education

2004/09 - **McMaster University – Bachelor of Manufacturing Technology (B.Tech)**

2006/06 *Co-Op at Goodrich Aerospace Oakville, ON*

Conducted High-speed machining feasibility study, to reduce manual de-burring of 747 landing gear castings, subsequently implemented by Goodrich.

2001/09 - **Mohawk College – Mechanical Engineering Technologist (Dipl. T)**

2004/06 *Co-Op at Amcan Castings (Engineering Dept) Oakville, On*

Developed custom tooling for CNC machining of die-cast car parts, assisted with automation cell design/installation and pressure test jig/fixture design.

Co-Op at Alumabrite Anodizing (Quality Department) Stoney Creek, On
Calculated quality control related statistical data. Identified defects in process control. Managed first run of new finishes for GE, Panasonic home appliances.