

# Han Sun

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## ABOUT ME:

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Adaptable and energetic Mechanical Engineering graduate with 2+ years of experience in manufacturing and rapid prototyping. Eager to learn and a team player with a deep passion for design and developing innovative solutions.

## SKILLS:

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- **4 years experience in 3D modeling** and 2D engineering drawings GD&T (SolidWorks, Solid Edge, AutoCAD) for professional and academic purposes.
- **2 years experience in manufacturing**, CAD design, vendor communication, process improvement, analyzing issues with attention to detail and managing multiple projects and deadlines on a daily basis.
- **Mechanical aptitude with Hands-on** approach to problem solving, accustomed to a variety of fabrication tools.
- **Adept in 3D printing**, and **Engineering simulations** with experience in FEA, CFD, and heat transfer applications using SolidWorks simulations and StarCCM+.

## PROFESSIONAL WORK EXPERIENCE:

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### Manufacturing Engineering Co-op

Lincoln Electric Canada – 2019, 2020

- Improving production first pass yield by designing numerous electro-mechanical testing fixtures, using Solid Edge.
- Resolving production bottleneck and improving manufacturing process through time studies and implementing/programming new production equipment.
- Upholding production quality through verifying design drawings and initiating quality checks.
- Creating intuitive work instructions using visual communication skills and team feedback.
- Improving operator safety by designing various ergonomic equipment guarding.

### Product Design & Assembler, 3D Printer Technician Co-op

Cheelcare – 2017, 2018

- Spearheading the company's in-house rapid prototyping system for wheelchair products by implementing and calibrating 5 distinct 3D printers.
- Satisfying specific customer needs through SolidWorks modeling and 3D printing custom products.
- Lead the development and assembly of a fast-selling product line of electric wheelchair backup cameras.

## ENGINEERING PROJECTS:

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### Human Powered Vehicle Fairing Design, ASME HPV Competition, Final grade: A+

- As the team's 3D designer, developed a carbon fiber human powered vehicle with 12 teammates to compete in ASME competition in the US as the second ever Canadian team.

### Aerodynamic Bike Frame Design, Final grade: A

- Ran simulations using StarCCM+ and leveraged the resulting datasets to identify optimal aerodynamic and structural design parameters.
- Used SolidWorks to implement said design insights to create a final product that satisfied all performance requirements.

## EDUCATION:

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**Honors Bachelor of Mechanical Engineering** (EIT Eligible) at York University – 2020

**Lean 6 Sigma Certified Green Belt** by Abacus team – 2020