

Nour Abdelrahman

+1-905-514-5200 | noureden.abdelrahman06@gmail.com | [in](#) Nour Abdelrahman

SUMMARY

Waterdown, ON - L8B 1Y1, Canada

Motivated Mechatronics Engineering student at the University of Waterloo with hands-on experience in CAD (SolidWorks, AutoCAD), design for manufacturing, and quality assurance. Skilled in C++, Python, and technical drawing standards, including ECR processes and PDM systems. Trilingual and adaptable, with a strong drive for innovation and continuous improvement.




PROJECTS

- **SketchBot:** 10/2024 - 11/2024
Tools: [C++, PPT, Word, Excel, RobotC]
 - Designed and coded a robot capable of creating outlines for engineering sketches using C++ and Robot C.
 - Enabled engineering to create outlines 3x faster and more accurate than by drawing by hand.
 - Successfully presented and communicated progress to course instructors.
 - Authored a comprehensive project report with analysis and actionable recommendations for future improvements.
- **V6 Engine Assembly and Simulation:** 01/2025 - 03/2025
Tools: [SolidWorks]
 - Designed and modeled a complete V6 engine assembly in SolidWorks, including all individual components such as pistons, crankshaft, camshafts, and valves.
 - Applied mechanical constraints using advanced mates to accurately simulate real-world engine motion and timing.

EDUCATION

- **University of Waterloo** 09/2024 - 06/2029
Bachelor of Applied Science, Mechatronics Engineering Waterloo, Canada
 - GPA: 3.70/4.00
- **École Secondaire Catholique Sainte-Trinité** 06/2024
Secondary Education Oakville, Canada
 - Ontario Secondary School Diploma (Bilingual)
 - GPA: 4.00/4.00

EXPERIENCE

- **Lincoln Electric, Python X**  01/2025 - 05/2025
Manufacturing Engineering Intern Waterdown, Canada
 - Created over **300** precise engineering drawings and assemblies in SolidWorks and AutoCAD, using SolidWorks PDM and SAP while following strict ECR and GD&T standards.
 - Performed torque, tolerance, and force analysis calculations, along with FEA simulations, to inform design decisions, demonstrating strong problem-solving skills and attention to detail.
 - Collaborated with senior engineers across departments on complex projects, contributing ideas and presenting technical work clearly during team meetings.
 - Developed a solid understanding of weldments, sheet metal fabrication, and material selection, applying adaptability and a continuous learning mindset to real-world manufacturing challenges.
- **Waterloo Formula Electric Design Team**  01/2025 - Present
Electrical Team Member Waterloo, Canada
 - Designed and assembled custom PCBs integrated into the team's car, supporting vehicle systems and performance.
- **The Home Depot Store Support Center**  06/2024 - 09/2024
Quality Technician Intern Bolton, Canada
 - Conducted quality inspections on a variety of products, ensuring compliance with company standards.
 - Helped uncover production problems in order to reduce overall defect rates.
 - Sampled products to conduct in-depth measurements and tests.

SKILLS

- **Programming Languages and Softwares:** C++, Python, Excel, SAP, SolidWorks PDM, MS Office, Tortoise SVN
- **Modelling:** SolidWorks (CSWA), AutoCAD, Altium Designer, 3D-Printing
- **Soft Skills:** Leadership, Organization, Time Management, Communication, Attention to Detail, Critical Thinking

ADDITIONAL INFORMATION

Languages: English (Fluent), French (Fluent), Arabic (Fluent)

Interests: Rock climbing, Mountain Biking, Skiing, Camping, Aerospace, Boxing, Motor sports