

# Muhammad Farhan

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## Education

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**York University | Toronto, ON**

Bachelor of Engineering in Mechanical Engineering

**September 2019 – Present**

**Expected Graduation, April 2024**

## Skills

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**Software:** Solidworks, Fusion 360, AutoCAD, Creo, CATIA, LabVIEW, MATLAB, Ansys, STAR-CCM+, Office 365 Suite

**Programming:** Python, Java, C

**Hardware:** Raspberry Pi, Arduino, Femto F3 Flight Controller

**Languages:** English (fluent), French (beginner), Urdu/Hindi (native)

## Experience

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**Canadian Nuclear Laboratories | Chalk River, ON**

**May 2023 – August 2023**

**Engineering Intern for Energy and Infrastructure Group**

- Analyzed and provided detailed energy metrics over a five-year period, revealing a 10% reduction in annual GHG emissions, demonstrating strong skills in environmental impact assessment.
- Developed a Carbon Neutral Plan for CNL facilities, identifying strategies to reduce carbon footprint up until the year 2025 by 25%, which helped progress CNL's carbon neutrality goal by 2030, showcasing strategic planning abilities.
- Led cross-functional teams in implementing infrastructure plans, resulting in a 12% improvement in project completion efficiency as well as adherence to critical timelines, and developed KPI's to ensure project progression.

**Pratt & Whitney | Longueuil, QC**

**September 2022 – April 2023**

**Engineering Supply Chain Analyst Intern**

- Conducted comprehensive audits of 165 vendor supply chains records, ensuring 100% compliance with corporate and TCCA aviation standards, demonstrating meticulous attention to regulatory adherence in the aviation sector.
- Instrumental in developing a new vendor validation form, streamlining vendor certification processes by 20%, facilitating smoother operations in aviation supplier management.
- Managed a pivotal project that innovated a thorough inspection method for vendor-supplied parts, successfully preventing over 78 product escapes, thereby enhancing product reliability in the aviation industry.

**Acetake Group Inc. | Toronto, ON**

**June 2021 – October 2021**

**Mechanical Engineering Intern**

- Expertly prepared over 30 mechanical designs using SolidWorks, catering to diverse needs in the manufacturing sector, resulting in an 18% increase in client satisfaction.
- Collaborated with vendors to provide precise cost estimations for industrial equipment, based on isometric designs, while enhancing the accuracy of project budgeting by 16%.
- Developed comprehensive bills of materials in Excel for various industrial equipment specifications, meeting 100% of client requirements efficiently.
- Successfully guided 13 clients through the TSSA certification process, achieving a 100% success rate and bolstering their operational compliance.

## Organizations

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**ESSENCE CubeSat Team | Toronto, ON**

**July 2022 – September 2022**

**Systems Engineer**

- Conducted rigorous testing on over 10 cube satellite boards, by ensuring grounding and continuity between connection pins which significantly enhanced satellite reliability.
- Played a key role in a team-driven project designing wire harnesses and board racks for cube satellites using SolidWorks. Being keen on precision ensured all CNC machined parts met designed tolerances within a tight +/- 0.05" deviation margin.
- Developed and led a detailed presentation on cube satellite development using PowerPoint and Excel, presented to York University and the Canadian Space Agency, showcasing strong communication and data analysis skills.