# NAZMUS SAKIB

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## EDUCATION

**CONCORDIA UNIVERSITY** Montreal, QC

***B. Eng in Mechanical Engineering with CO-OP***

- Engweek Design Competition Winner
- Stress and Design analyst at Space Concordia: Rocketry Structures
- Relevant courses: Manufacturing Processes, Machine Element Design, CAD/CAM, Materials Science.

## PROFESSIONAL EXPERIENCE

**APOLLO MICROWAVES** Montreal, QC

*Manufacturing Engineer* *Jan 2021– Present*

Spearheaded integrated R&D projects for aerospace products, aligning engineering design, manufacturing, and product development for over 3 years.

- Optimizing manufacturing processes such as tube winding, heat treatment and electroless plating through rigorous metallurgical research and testing to reduce customer RMA by 30%.
- Improving production times by over 60% by developing induction brazing, welding, machining and 3D printing processes through rigorous thermal simulations and testing.
- Designing fixtures & jigs in SolidWorks to facilitate production processes such as CNC machining, induction brazing and hydraulic press.
- Developed and implemented work instructions, tutorial videos and technical documentation for new manufacturing processes, improving production efficiency.
- Use Dfm principles to make 3D models on CAD software like SolidWorks, Creo & AutoCAD to develop new RF subcomponents and waveguide assemblies facilitating manufacturing to offer competitive market prices.
- Designing, machining, and assembling milling machine safety guards with automated power cutoff for operator protection from scratch in house to protect operators at 20% market price.
- Spearheading designing and troubleshooting a machine to produce flexible twistable waveguides through roll-to-roll mechanical winding and reverse engineering the process from patent drawings.

**LAURUS SUMMER CAMP**

Montreal, QC

*Robotics and Science Instructor* *Jan 2020 – Mar 2021*

- Provided Experimental Science and Robotics after school classes to students aged 8-12 in groups of 4-8.
- Developed study plans, experiments and classroom content for students with a hands-on approach, receiving overwhelmingly positive reviews from the parents.
- Broken down complex scientific concepts into bite sized lessons for the students and designed regular checks to assess progress.

**VELAN INC.** Montreal, QC

*Mechanical Engineering Intern* *May 2022 – Dec 2022*

Collaborated with Severe Service Business Unit, contributing to product development and quotations with a team of 20+ engineers.

- Compiled and analyzed data from 500+ P&IDs to identify severe service Metal Seated Ball Valve sales opportunities for oil refineries and develop quotations totaling over $50M.
- Assisted in product lifecycle management, line drawings for patents and cost estimates of new $20M+ valves with actuator selection.