IT Analyst / Technician

Aadi Tamrakar

Aadi.Tamrakar@gmail.com [506-123-0083](https://www.postjobfree.com/contact-candidate/aedchm/mechanical-and-materials-saint-john-nb)

Summary of Skills

Software troubleshooting

• Strong technical problem-solving and project management skills

• Experienced with working on mechanical machine design assemblies with 5-100 parts

• Proficient in CATIA, SolidWorks, AutoCAD, OpenFoam, Python, MATLAB, Linux, C/C++

• Experienced with MS Office Suite and interpersonal relationship management Work Experience

Resident Project Engineering Co-op

Magna – MML 2023–2024

• Conducted warranty investigations using Red-X methodology to resolve root causes

• Developed design modifications for production parts, focusing on cost and scrap reduction and constructed testing fixtures for part evaluation

• Authored engineering documents (NOCs, TIRs, BOMs, Engineering drawings) in a Siemens product drawing database

Market Researcher

Seeng Beer Summer 2022

• Researched popular beer styles and flavors, influencing new product development

• Operated machinery for canning/kegging and brewing of product Event Manager & MC

Indo-Canadian Society of Saint John 2018-2019

• Organized large events for 200+ guests, coordinating logistics, catering, and performances

• Led rehearsals and hosted events, demonstrating leadership and public speaking skills Education

Bachelor of Mechanical and Materials Engineering

Queen’s University, Kingston, ON 2020–2025

Relevant courses: Computational fluid dynamics, Polymers and composite materials, Nuclear Materials, Nano-Materials, Robotics, Automatic Controls, Electric Circuits and Motors, Solid Mechanics, Applied Thermodynamics, Fluid Mechanics, Heat Transfer. Relevant Projects

6 Degree of Freedom Robotic Arm 2025

• Designed and analyzed a robotic manipulator, conducting kinematic modeling and simulations in MATLAB

Nuclear Materials Microreactor 2024

• Developed a conceptual Small Modular Reactor (SMR) design for powering remote Canadian communities

• Analyzed reactor components, fuel selection, and system integration Queen's Rocket Engineering Team 2022-2024

• Contributed to designing a payload for North American rocket competition, focusing on vibration-based power generation

Bone Scaffold Design for Cancer Survivor 2022

• Designed a biocompatible scaffold to simulate human bone stiffness and promote tissue growth

Zero Emission Residence Building 2022

• Collaborated on a design for a net-zero energy building for 500 students, focusing on energy-efficient solutions

Rover Arm Design for Queen’s Space Engineering Team 2021

• Designed a functional rover arm prototype within budget and client specifications

System diagnostics, IT project management, Tech communication, Network security, Software troubleshooting