

MATTEO RUZDIJIC

Mechatronics & Robotics Student

www.linkedin.com/in/m-ruzdijic

mruzdijic@gmail.com | +1 (587) 893 1470 | Calgary, AB, T3C 2H7

SUMMARY

Motivated Mechatronics and Robotics **Engineering** student at Queen's University with project planning, CAD modeling, hands-on prototyping, **design** and **build** experience. Proven **leadership** through roles in **Queen's Relectric** and various **robotics projects**. Skilled in **Fusion360/SolidWorks, C++** and **C**, and problem solving with a strong interest in automation, prototyping, and mechanical design.

EXPERIENCE

Co-Captain, Queen's Relectric ----- Apr 2026

Kingston, ON

Co-managed a team of **130+ students** across 7 sub-teams in the building and marketing of an electric go-kart for the Purdue EV Grand Prix. Consolidated a **\$ 25,000+ budget** to various go-kart sub systems according to a cost management plan, whilst delivering workshops on **outreach processes, brand strategy and team promotion**. Spearheaded Relectric's recruitment process by delivering presentations at faculty events and discussed the future of sustainability in the automotive industry at various conferences.

Data Management/Consulting Intern, Peloton Computer Enterprises----- May 2026 - Aug 2026

Calgary, AB

Collaborated directly with clients to **integrate and configure complex oil and gas asset and flow network data resulting from mergers and acquisitions into ProdView environments**, ensuring data accuracy and operational continuity. Developed production accounting reports to support critical business and financial reporting needs while maintaining and enhancing documentation across Peloton software solutions to improve system consistency, knowledge transfer, and user adoption.

Assembly Lead/Executive Member, Queen's Relectric ----- Apr 2025 - Apr 2026

Kingston, ON

Directed **mechanical assembly** for Queen's Relectric's Purdue EV Grand Prix kart, ensuring compliance with CIK-FIA regulations, and acted as **Safety Officer** for the team. **Optimized chassis and drivetrain integration** and mentored new members in **fabrication and mechanical troubleshooting**.

EDUCATION

Queen's University ----- Sep 2024

B.A.Sc., Mechatronics and Robotics Engineering – Dean's List

Kingston, ON

GPA: **4.00**; Activities: Relectric (Assembly Sub-Team Lead, Co-Captain), ORT Orientation Leader

Westmount Charter School ----- Sep 2018 - Jun 2023

Highschool Diploma – Alexander Rutherford Scholarship – **97%** Overall Grade

Calgary, AB

PROJECTS

Electric Racing Go-Kart Conversion ----- Sep 2025

Converted a gas go-kart into a fully EV high speed racing kart that raced at the Purdue EV Grand Prix and placed **3rd in efficiency, 4th in design and 5th overall** out of 22 teams after its first 5 months of active development. Developed a custom battery/electronics system, drivetrain, mounts for various components, and ensured **compliance** with all competition rules.

Industrial Automation Robotic Arm ----- Jan 2025 – Apr 2025

Designed and **prototyped** a robotic arm capable of stacking weighted cubes to reflect factory automation, considering **kinematics, load distribution, and mechanical reliability**. Programmed control logic in **C++**, implementing stacks and algorithms to optimize precise, repeatable motion. Presented the fully functional arm in an **MREN 178 lab demonstration**, showcasing integration of **mechanical design, programming, and algorithmic problem-solving**.