

ADRIAN MA

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EDUCATION

University of Toronto	Toronto, Canada
Bachelor of Engineering in Mechanical Engineering (3.75/4.0 GPA)	2018 – 2023
<ul style="list-style-type: none">Awards: Graduate with Honors, Member in Dean's Honor List	

PROFESSIONAL EXPERIENCE

Project Engineer, EIT	North York, Canada
SK Electric Canada	2024 - Present

- Established a new sheet metal factory from the ground up, managing layout, supplier sourcing, and workflow setup; built a 20-person team and achieved delivering 5 non-PET projects per week within 6 months.
- Developed quotation and cost-control system from scratch, integrating BOM and material data into a unified ERP-linked template that improved cost transparency and bidding speed down to 3 days.
- Led all project quotations and client communications, directly contributing to winning a \$20M USD contract and multiple repeat orders from global clients.
- Implemented ISO 9000 system and client PQ audit, building end-to-end documentation, inspection templates, and training routines for production procedures; certified after two rounds of review.
- Integrated ERP into production and procurement workflows to manage orders, materials, payments, and inventory, ensuring continuous and efficient operations.
- Coordinated cross-functional team between engineering, quality, procurement, and production to track project milestones and resource allocation, project lead time cut down 30%.
- Hands-on in all sheet metal processes, enabling effective SWI creation and 50% efficiency improvement

Application Engineer, EIT	Richmond Hill, Canada
Engineering & Sales, Harmontronics Automation Canada	2023 – 2024

- Led the conceptual development of automation solutions for automotive connection systems, including FAKRA, Ethernet cables, and EV plugs, by creating AutoCAD drawings and selecting configurations
- Analyzed cost models and RFQs, generating technical quotation proposals that met client requirements
- Supported key sales activities such as Factory Acceptance Testing (FAT), Site Acceptance Testing (SAT), customer visits, and contract drafting, directly contributing to securing contracts valued at over \$5 million USD
- Collaborated across teams to mitigate risks utilizing D/P-FMEA, APQP, 8D, 5 Whys techniques, and spearheaded problem-solving initiatives
- Assessed market and customer status to support business development strategies, as well as after-sale activities

SKILLS & PROJECTS

Software: Microsoft Office, SolidWorks, AutoCAD, ANSYS, SAP, Python, 3D Printing,
Hands-on Skills: First-aid, Laser cutting, Press & Break, Riveting, Tapping, Grinding, Assembly, Forklift Operation

Autonomous Rover (Maze-Solver) Design | Arduino, 3D Printing, Electrical Assembly, C++

- Designed, prototyped, and manufactured an autonomous rover capable of navigating and localizing within a maze environment, equipped with pickup and drop-off functionality for object manipulation.

Autonomous WEC System | Arduino, AI Extrusion, 3D printing, Electrical Assembly, C++

- Designed and prototyped a mechanical mooring system for Wave Energy Converters (WEC), integrating sensors, control circuits, and 3D-printed components to enable autonomous operation and improved stability

Reverse Engineering on “DKR Chair” | Artwork Creation, Sheet Metal Fabrication, Powder Coating

- Reverse-engineered the “DKR Chair,” one of France’s Top 100 Design projects, and led full in-house fabrication including 3D modeling, laser cutting, bending, welding, and powder coating (outsourced)