ADRIAN POPIELAS

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Skill Summary

Engineering Tools	Personal Skills	Manual Skills	Languages
Solidworks, Fusion 360, Onshape, Confluence, JIRA, Altium, ROS	Problem Solving, Organization, Teamwork, Leadership, Interpersonal, Attention to Detail	Machine shop, Woodworking, circuit soldering and PCBA modification, Ballroom Dance	English French (Fluent) Polish (Oral Fluent, Basic Writing)

Education

University of Waterloo
Honours Bachelor of Applied Science
Mechanical Engineering, April 2017

Certifications

Professional Engineers Ontario
P. ENG License
Licensed and Practicing Professional Engineer

Work Experience

Senior Mechanical Engineer — **Robotic Assistance Devices**
February 2025 – Novemeber 2025 — Waterloo, ON

➢ Completed design tasks in Solidworks for complex electromechanical systems made from various manufacturing processes including formed sheet metal, CNC machined parts, and 3D printed plastic.
➢ Provided technical leadership in design reviews, resource planning, and utilized Upchain Product Lifecycle Management (PLM) designs were tracked efficiently while using Jira for issue tracking and Confluence for centralized technical documentation
➢ Guided the development of prototypes and oversaw validation testing to meet defined performance objectives for robotic subsystems.
➢ Mentored junior engineers and promoted team alignment, fostering a strong collaborative environment for problem-solving and goal achievement.

Mechanical Engineer — **Clearpath Robotics**
August 2021 – October 2024 — Waterloo, ON

➢ Completed full system design for multiple complex robotics projects, including integrated mechanical and electrical systems.
➢ Developed solid model designs in SolidWorks, created detailed 2D Drawings using Geometric Dimensioning and Tolerancing (GD&T) techniques, and used Arena PLM for product management.
➢ Collaborated with local and overseas suppliers, specializing in designs optimized for various manufacturing processes including sheet metal fabrication, CNC machining, and injection molded plastics (Experience in designing plastic components).
➢ Led the end-to-end development of a new commercial product (TurtleBot 4) from concept to market, managing the entire design process, issue tracking, and documentation using tools like Jira and Confluence.
➢ Provided design improvements and updated solutions to enhance performance, reliability, and cost-effectiveness of existing platforms (Product Sustaining & Continuous Improvement), often leveraging FEA simulation results for optimization.
➢ Worked effectively within interdisciplinary teams to support customers and troubleshoot field issues, demonstrating strong analytical and problem-solving skills.

Mechanical Designer — **Accelerated Systems Inc.**
September 2018 – August 2021 — Waterloo, ON

➢ Executed the design and validation of e-mobility products and components using SolidWorks, applying FEA (Finite Element Analysis) and DFM (Design for Manufacturing) tools.
➢ Coordinated prototype development, comprehensive testing, and required technical documentation for product verification cycles.
➢ Managed BOMs, engineering drawings, and revision control using PDM systems for product lifecycle management.