

# ETHAN MARTINEZ

Machine Designer

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## PROFESSIONAL SUMMARY

Innovative Machine Designer with 7 years of experience in creating advanced mechanical systems for diverse industries. Expert in CAD software and automation technologies, dedicated to optimizing manufacturing processes and enhancing product quality. Proven ability to collaborate effectively with cross-functional teams to deliver projects on time and within budget, driving operational excellence.

## WORK EXPERIENCE

### Machine Designer

📅 Mar / 2021-Ongoing

Maple Leaf Consulting

📍 Toronto, ON

- 1. Led the design and implementation of innovative electromechanical systems for medical devices, enhancing functionality and reliability.
- 2. Directed projects for quality improvement in component assembly, achieving significant cost reductions and optimized manufacturability.
- 3. Utilized advanced CAD software (Unigraphics, AutoCAD) to create precise mechanical designs and prototypes.
- 4. Recognized for excellence in project management on a structural foam machine panel design, achieving cost savings and efficiency gains.
- 5. Conducted supplier selection and mold design processes, ensuring seamless manufacturing implementation.
- 6. Managed tire-building machine modifications, ensuring operational efficiency and quality control during production shifts.
- 7. Improved production workflows through strategic design changes, resulting in enhanced machine performance.

### Machine Designer

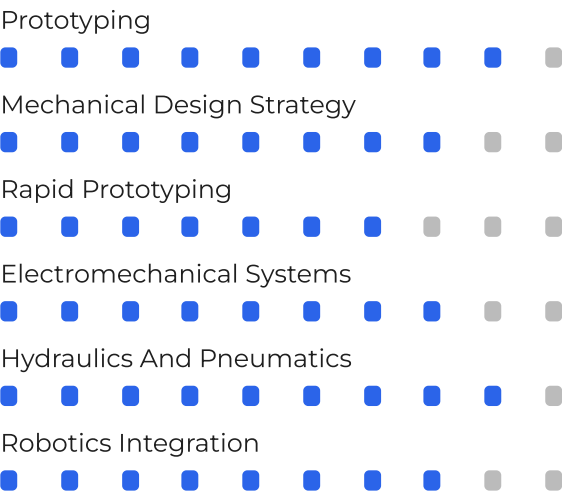
📅 Mar / 2018-Mar / 2021

Summit Peak Industries

📍 Denver, CO

- 1. Designed plant layouts and equipment structures for new product manufacturing using Solidworks, enhancing production flow.
- 2. Created detailed support frames for new transfer conveyors, optimizing material handling efficiency.
- 3. Executed detailed design for defense industry systems, focusing on precision and reliability in critical applications.
- 4. Developed pivoting level wind systems for sonar applications, integrating advanced engineering principles.
- 5. Designed packaging equipment for the food processing sector, ensuring compliance with industry standards.
- 6. Served as a Machine Designer for the Package Consulting Group, delivering custom machinery solutions for major clients.

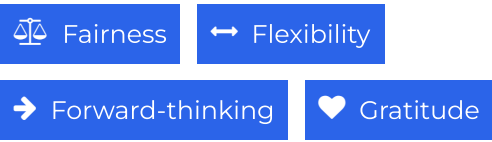
## SKILLS



## INTERESTS

- 🎮 Gaming
- 👗 Fashion
- 🎬 Film
- 💻 Technology

## STRENGTHS



## LANGUAGES



## ACHIEVEMENTS

- 🌟 Developed a custom packaging solution that improved throughput by 30% while reducing material waste by 25%.
- 🌟 Implemented a new CAD software system that enhanced design accuracy and reduced project lead times by 40%.
- 🌟 Designed and executed a mechanical system that increased energy efficiency in manufacturing operations by 18%.