

NICHOLAS J. ROMANO

223 Burns Blvd, King City, Ontario Canada, L7B 1C8 (*Willing to Relocate*)
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Education

Bachelor of Mechanical Engineering Technology

Sept 2017 - Dec 2018

University of Windsor

- Academic Award of Excellence Fall 2017
- PEO applicant

Mechanical Engineering Technology Advanced Diploma

Sept 2014 - Dec 2017

Humber College

- Technician and Technologist dual-diploma program
- Graduated with Honours Award
- Skills Ontario participant for 3D CAD design and drafting competition
- OACETT associate member

Employment Experience

Estimator

Jan 2019 – Present

Amico Corp.

- Read, interpret, and preform take-offs on architectural drawings and used AutoCAD™ to design architectural hospital headwall to match customer requirements
- Used attention to detail and organization when working on large projects
- Worked closely with the sales team to provide quotes to a global customer base

Manufacturing Engineer (Co-op)

May–Sept 2016 & 2017

Magna Closures, Dortec

- Full-time co-op student completing two 4-month co-op terms for Magna Closures Ltd.
- Participated in the development and planning of automated manufacturing processes for door latching and locking actuators for Ford-Lincoln, GM and BMW
- Maximize the efficiency of semi-automated manufacturing lines. Designed electro-mechanical systems using Solidworks™ and controlled by Allen Bradley PLCs. Drafted professional blueprints for machining done by external or internal sources
- Assisted engineers in the pre-production prototyping stage (DFM and FMEA testing)

Mechanical Designer

Jan 2015 – May 2017

SunPillar Inc.

- Designed and prototyped weatherproof agricultural electronics using Solidworks™. I made use of 3D printing and vacuumed molding techniques to finalize products and prototypes. Rendered models for presentation quality.
- CNC vacuum molds from MDF and aluminum for product development prototypes using Mastercam™ software
- Actively collaborated with multiple discipline team members

Academic Projects

Team Captain, Lead Engineer

Jan 2017 – Present

SAE Formula Electric, University of Windsor Lancer Motorsports

- Managed a student team towards the successful design of a pure electric SAE formula-style race car. Raised over \$10,000 in funding from various sources.
- Personally, designed and developed composite bodywork and steel Sheet metal battery assembly systems using Solidworks™ and AutoCAD™.
- Divided work among members, set deadlines, managed funds, scheduled meeting, and recruited new members to the team
- More Info: <https://www.youtube.com/watch?v=dGZm-ag81Ys>

Research Assistant

Sept 2018 – Dec 2018

University of Windsor (volunteer)

Biomedical engineering research on progressive lumbar training devices to meet the needs and expectations of a customer in the medical field.

- Made use of additive manufacturing, and traditional mechanical systems to mimic organic human structures and material. Design work done in Solidworks™.
- Student lead and organizer

Humber College (paid)

June 2016–May 2017

- Researched the application of alternative solar energy sources for residential use.
- Co-ordinated between outside company and internal faculty
- “Smart Shingles” featured at: <https://www.youtube.com/watch?v=n6gbxpBxuco>

Skills

Technical

- C++
- Allen Bradley PLC & ladder logic
- Electronics, control circuits and basic PCB design experience
- Mastercam™ CNC programming
- CNC setup and operation (Haas)
- Machine shop practices (lathe, mill)
- Hydraulics and pneumatic circuits
- Automotive technician experience
- MATLAB™ numerical methods
- Leadership
- Project management

Design

- GD&T
- **3 years experience:** Solidworks™, Catia™, AutoCAD™, SketchUp™
- ISO & ANSI drafting standards
- Design for manufacturability
- FEA and Simulink™
- FMEA, DFMEA and Risk Analysis
- Product development experience
- Digital control circuit design
- Creative Design
- Manufacturing process design

Personal Interests

- Building and tinkering with a particular interest in automotive racing and tuning.
- 70s & 80s music: Michael Jackson, Duran Duran, Van Halen, Prince, etc.
- Staying active: Long-distance cycling, snowboarding, hiking, and personal fitness