



PROMOTION

NATIONAL LABOUR
MARKET STRATEGY
III- NLMS

Robotics | Tooling | Equipment

October 2018

**PROMATION
VIDEO**



Automation Integration Services

Concept, development, design and integration of custom tooling & robotics & automation

Advanced Manufacturing

Engineer-to-Order and Built-to-Print as per customer specifications to the highest quality standards



STRATEGIC STATEMENTS

PROMATION

✓ Vision Statement

Promation is the Brand Name for Excellence in the Industry

✓ Core values

Share the Vision, Preserve Integrity, Foster Professional Ethics

✓ Mission Statement

Promation is the Industry Model for sustainable and profitable operations



125 Employees

PERFORMANCE & SUCCESS BASED ON INNOVATION AND EXPERIENCE

PROMATION

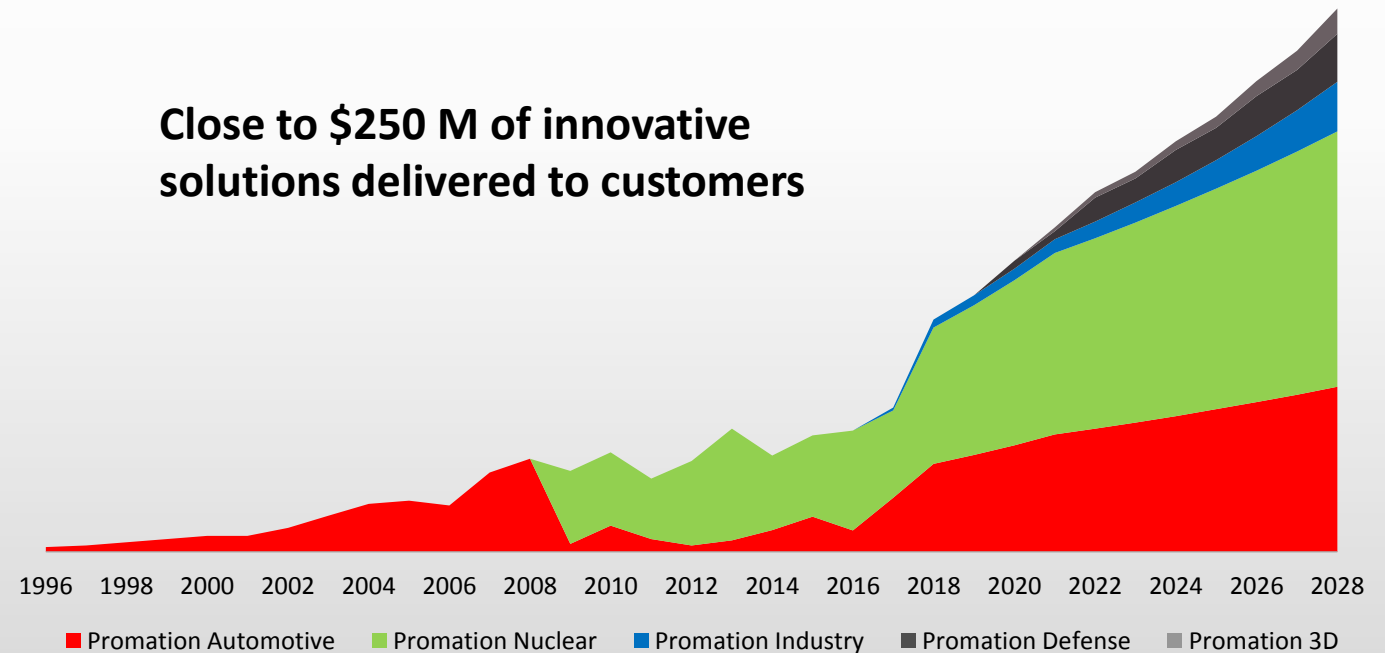
✓ INNOVATION

- Robotics for Manufacturing
- 3D Metal Printing/Additive Manufacturing
- SMRs

✓ EXPERIENCE

- Fast-To-Market Solutions
- Regulatory Compliance
- Nimble Manufacturing
- Reliable Supply Chain

Annual Revenue by Market (in \$ M)



TOO FAST

PROMOTION

**Bloomberg Businessweek**

June 8, 2018, 5:00 AM EDT




▲ At Tesla, robots install the seats. That's unusual. PHOTOGRAPHER: BALAZS GARDI FOR BLOOMBERG BUSINESSWEEK

Inside Tesla's Model 3 Factory

If Elon Musk can make this dance of robots and people work, it will change how cars are made.

By Tom Randall
From **Hyperdrive**


WHAT TO DO

**THE GLOBE AND MAIL**

SUBSCRIBE LOG IN

Will Tesla's mass-market gamble pay off?

NEAL E. BOUDETTE
FREMONT, CALIF.
THE NEW YORK TIMES NEWS SERVICE
PUBLISHED JULY 1, 2018



The Model 3 assembly line, under a tent, at Tesla's factory in Fremont, Calif.
JUSTIN KANEPS/THE NEW YORK TIMES NEWS SERVICE

Just outside the north wing of Tesla's sprawling electric-car plant here, an unusual structure has taken shape in the past few weeks: a tent, about 50 feet high and several hundred feet long, its taut grey canvas membrane supported by aluminum columns.

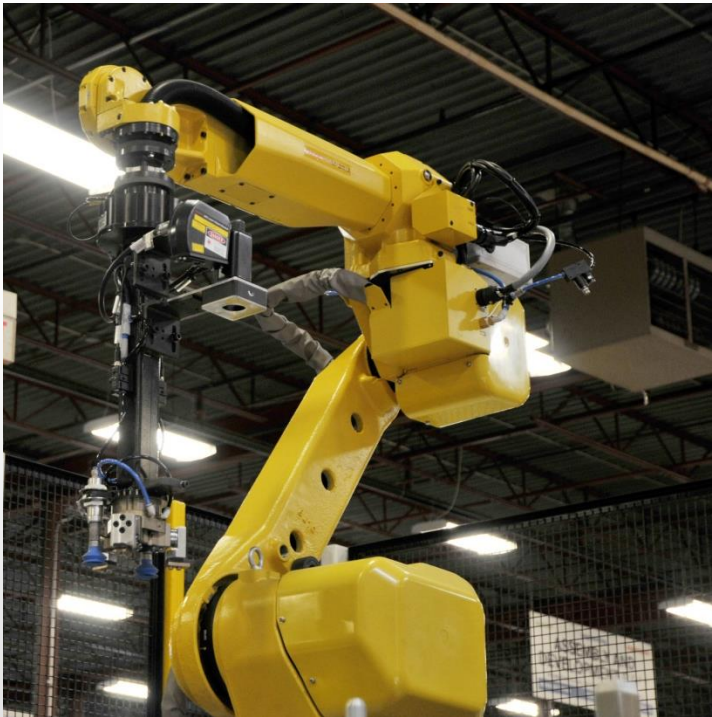
Feedback

WHAT NOT TO DO

AUTOMATION EXAMPLES

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INSPECTION & QC



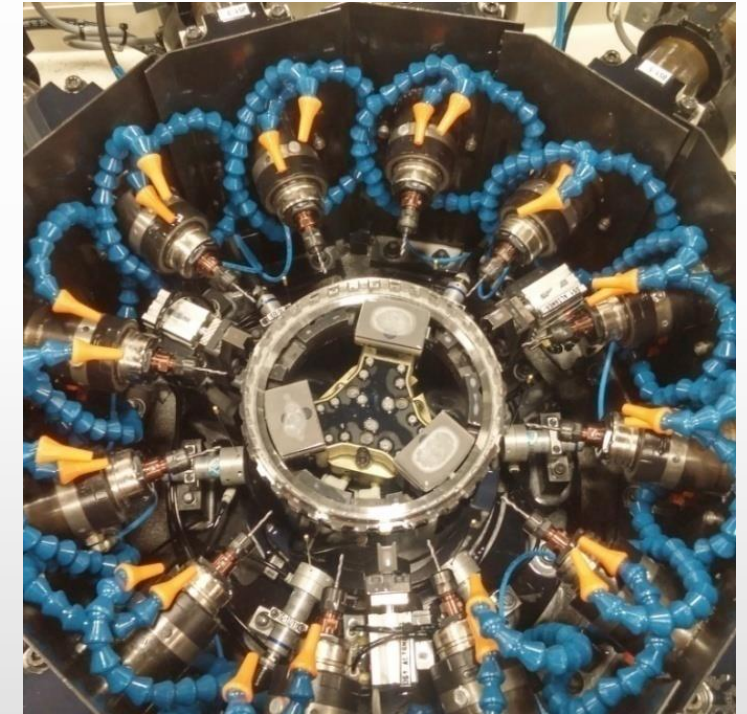
Six Axis Robot with Integrated Vision is used to determine part location in delivery bin and use vision to verify correct part type and orientation prior to introducing to plant automation

TORQUE APPLICATION



Fasteners are fed from bulk feeding system to DC Electric Tools mounted to Six Axis Robot. Robot then uses predetermined hole positions to feed, torque and verify complete fastening process

DRILLING



Six Axis Robot integrated with two custom drilling nests to achieve higher throughput than standard CNC drilling equipment

WHY, WHEN AND HOW TO AUTOMATE

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Increase productivity, reduce manual non skilled labour, increase safety and quality

\$ 600 K

Time to Market : 6 months

7- Employee reduction

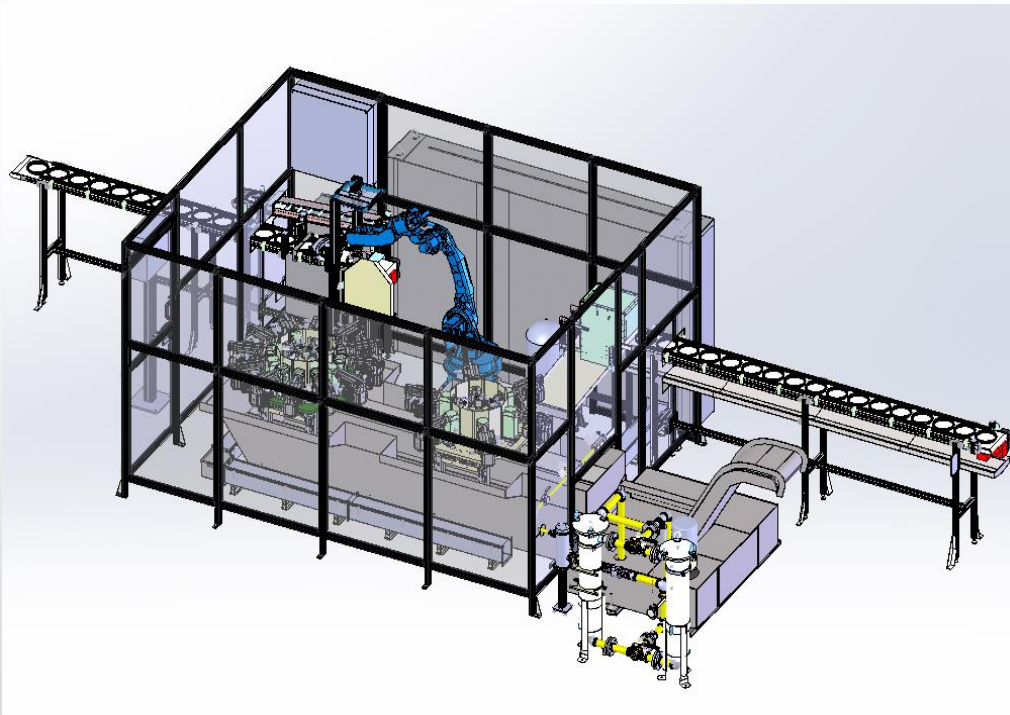
DESIGN



MANUFACTURING



DELIVERY



Hole Drill System

AUTOMATION CONSIDERATIONS

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As society advances as a whole, WE NEED TO EMBRACE AND ADAPT AT ALL LEVELS to technological innovations, and to do this, we need to REMOVE THE DIVIDE BETWEEN TECHNOLOGY AND TRADITIONAL SKILLED TRADES, since they are now increasingly becoming intrinsically interconnected.



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DARRYL SPECTOR

President of Promotion Nuclear
Vice-Chair of the Skills Ontario Board



As part of true reconciliation, we need to BUILD A BETTER RELATIONSHIP WITH OUR INDIGENOUS POPULATION starting from the ground up. All kids love robotics so let's INTEGRATE INDIGENOUS YOUTH INTO THIS INDUSTRY and leverage automation's ability to reduce our environmental footprint. Let's DEVELOP EDUCATIONAL COMPONENTS AND PROGRAMS ON FIRST NATIONS in partnership with the existing Automotive suppliers.



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MIKE RUYSEVELDT

Business Development Director of Promotion Nuclear
Leader of First Nations, Metis and Inuit (FMNI) Committee

3 GENERATIONS

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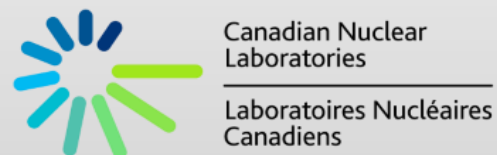
- ✓ **Novis Class**
High School, Co-op , Young Grade
- ✓ **Pro Class**
Work Force
 - *IT Outside Training*
 - *In House Training by supervisor daily*
 - *Collaborative mix of two above*
- ✓ **Vet Master Class**
Retired Work Force



GENERATION RACE FOR THE FUTURE

STRATEGIC COLLABORATIONS

PROMATION



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