KINOVA & CLEARPATH

Kinova - Keith Blanchet (VP, Business Development)

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KINOVA

Advanced robotic manipulation







Autonomous Vehicle Fleets for Material Transportation



Greenhouse Operator

"High-mix, low volume unstructured environments"







Kinova & Clearpath Keith Blanchet, VP Bus Dev Alain Francq, Clearpath Robotics

PROJECT DESCRIPTION

Automating (increasing throughput and reducing the cost) at least one (1) of the following, picking, packing, sorting and transporting of materials in **high-mix**, **low-volume**, **unstructured**, **indoor**, **industrial environments**.

Using a system of machine-vision enabled robotic arms working in collaboration with fleets of autonomous self-driving vehicles that are monitored, controlled and enhanced with machine-learning based workflow, fleet management tools and data science analytics.

PROJECT OBJECTIVES

- Develop an all-Canadian adaptable automation solution for high-mix, low volume unstructured manufacturing and logistics tasks
- Provide Industrial or Agricultural sector with a market-ready solution in fields with supply-demand imbalance
- Increase quality, gross profit margins and competitiveness in Canadian agricultural production facilities
- Develop advanced robotics and vision-based machine learning tools that produce clear ROI for high-mix, low-volume unstructured manufacturing and logistics tasks.

PROJECT DURATION:

18 months

STARTING MRL LEVEL:

5

ENDING MRL LEVEL:

7





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OUR EXPERTISE AND ROLE IN THE PROJECT:

- We are two of Canada's top manufactures of robotics for manipulation and autonomous material transportation.
 - Robotic Manipulation Software and Hardware (Kinova)
 - Self-Driving Vehicles (SDV) and Fleet Management Software (Clearpath)
- · Robotics, Perception, Autonomy, Control, Machine Learning & Data Science
- Proven collaborators in the automation of production facilities where human resources are in shortage and demand is growing rapidly.

EXPERTISE WE ARE LOOKING FOR:

- · High performance vision-based sensing, automation, image processing integration
- Real-World settings for testing of Manipulation, 3D Mapping & Vehicle Navigation

