



Robotic harvesting of greenhouse cucumbers and bell peppers

- Designed for robotic harvesting of long English cucumbers and bell peppers
- Patent-pending* closed-loop cucumber harvesting tool with embedded sensors delivers:
 - Zero risk of cutting main stem
 - Detection of stems obscured by leaves
- Demonstrated integrated system on mobile platform with robotic arm control algorithms for positioning end-effectors
- Vision system using low-cost cameras for fruit detection, tracking and ripeness determination
- Yield prediction model and harvest mapping of bell peppers
- On-board, real-time computing (no Cloud storage or computing required)



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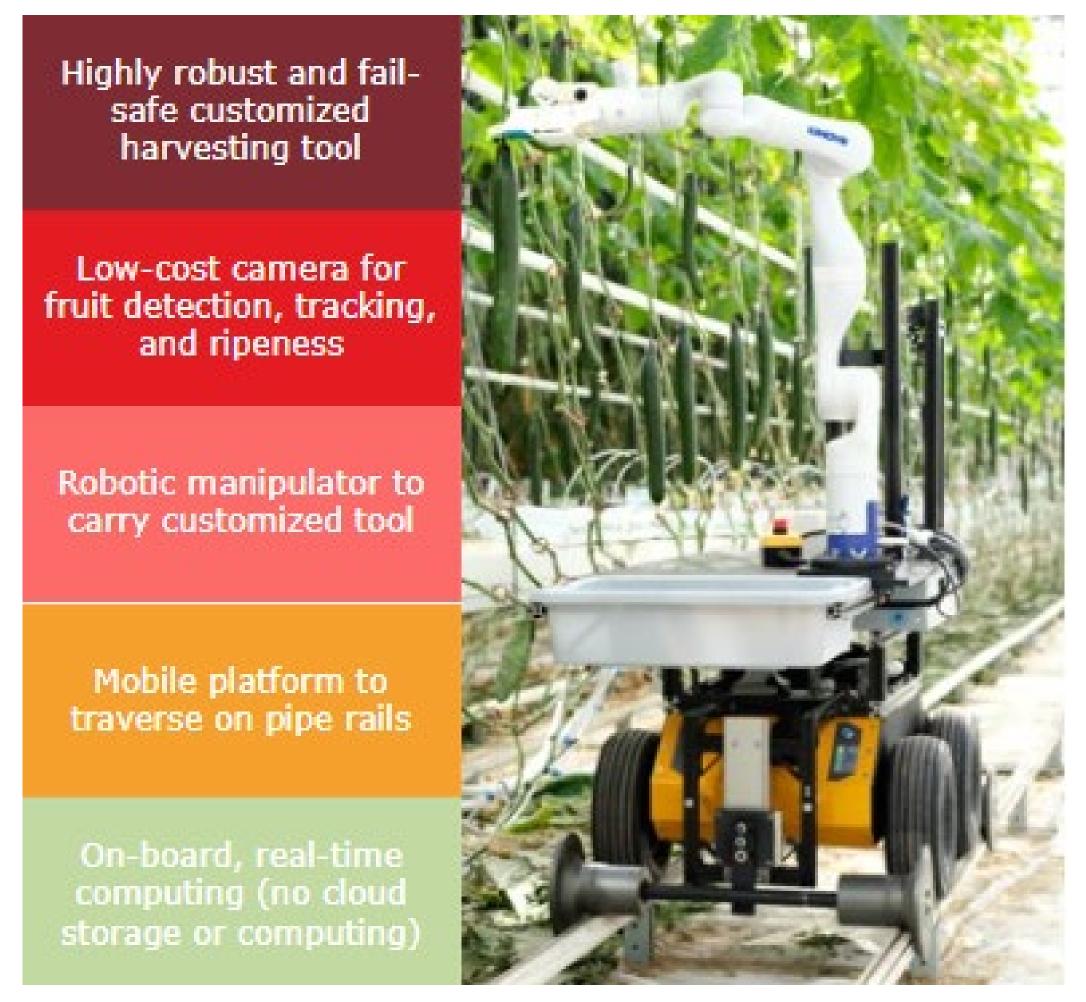
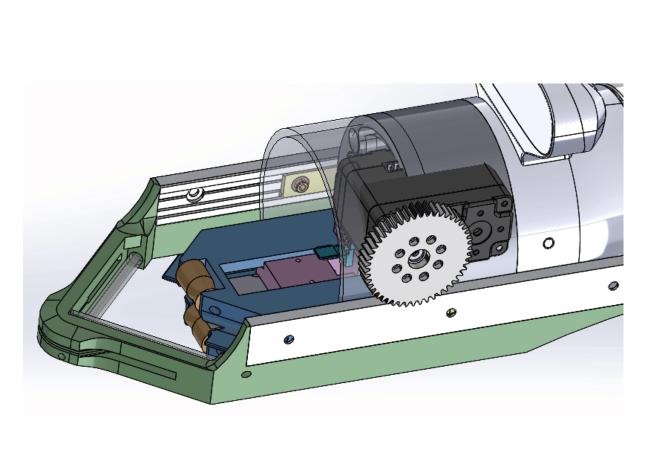


Figure 1 - Proof-of-concept vegetable harvesting robot and value proposition.



Align below bottom tip



Follow contour



Close when nearing neck



Find stem



Stop when closed on stem



Figure 2 - Custom end-effector performing risk-free harvesting.

*U.S. Provisional Patent No. 63/327,508





