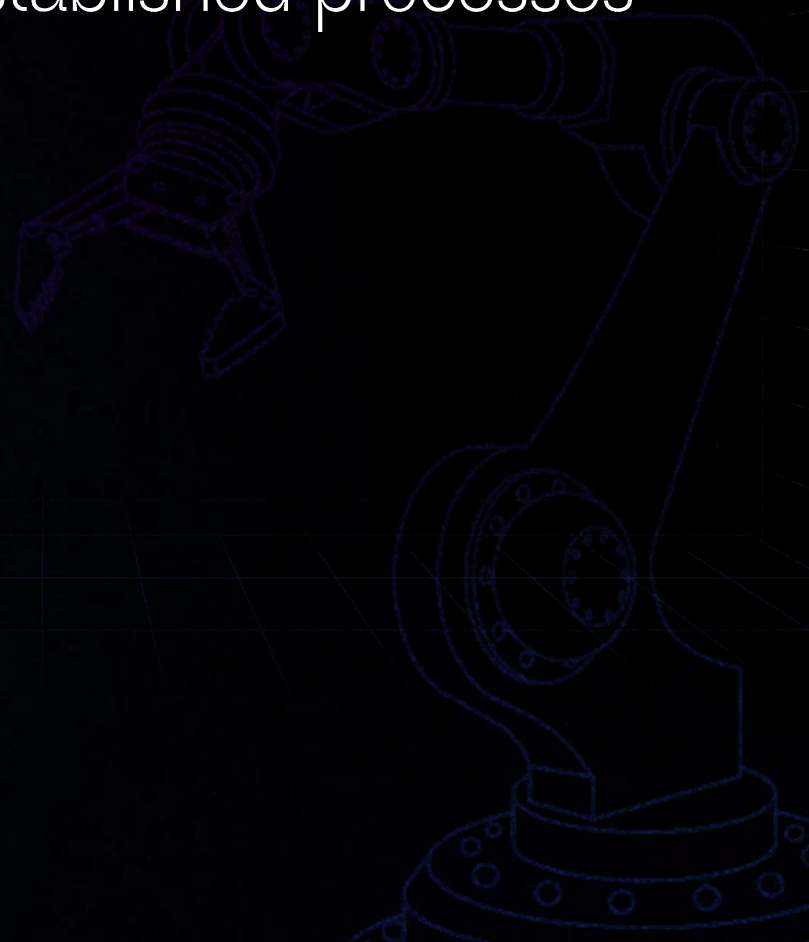
BUSINESS PITCH

Cobot Integration

Engineering automation on to established processes



Change begins here.

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What is a Cobot (Collaborative Robot)?

Collaborative robots, or **cobots**, are robots designed to safely work alongside humans in shared workspaces, unlike traditional industrial robots which operate in isolation.

Human-safe
Built-in sensors and force-limiting features for safe interaction.

Flexible deployment
Lightweight and adaptable to different tasks or setups

Cost-effective
Initial upfront costs can be covered with a short time period through ROI.

Minimal Disruption
Seamlessly integrate into existing workflows.

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Value Proposition: Where we come in.

At BPIC, we specialize in integrating collaborative robots into your existing workflows. There is no need to for a full process overhaul.

- We assess your current operations and identify automation opportunities
- Develop custom end-of-arm tooling, interfaces, and workflows
- Adapt cobots to suit industry-specific requirements and multi-shift environments

Why BPIC?

- Deep automation expertise
- Vendor-agnostic integrations
- Quick turnaround with minimal disruption
- Proven track record with SMEs & enterprises
- Commitment to long-term partnership and support

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Use cases across industries

Collaborative robots are not limited to a single sector. Their flexibility, safety, and ease of integration make them ideal for a wide range of industries facing automation challenges.

From precision-driven labs to high-throughput manufacturing lines and labor-intensive logistics operations, Cobots are helping businesses overcome bottlenecks, reduce costs, and improve efficiency, without disrupting existing workflows.

1 Lab Automation – Fuel Oil Testing Labs

Industry Challenge

Fuel oil labs perform repetitive tasks like pipetting, mixing, and sample prep, which are time-consuming and error-prone. High-throughput environments demand consistency for compliance and client trust.

How Cobots help

We deployed a cobot to automate vial loading/unloading in spectroscopic analysis, cutting technician workload and turnaround time. Its precision improved result consistency and freed up staff for higher-value tasks.

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2 Manufacturing – Precision Assembly & Quality Control

Industry Challenge

Manufacturers must boost throughput while maintaining quality. Manual precision tasks often cause variability and worker strain. Visual quality checks are slow and inconsistent.

How Cobots help

Cobots automate assembly and inspection tasks like screwing and visual checks. Safe to work alongside humans, they improve consistency, reduce defects, and maintain flexibility in mixed-model production.

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3 Logistics – Packaging & Palletizing

Industry Challenge

Warehouses face labor shortages and high demand. Packaging and palletizing cause fatigue and injury, slowing operations and raising costs.

How Cobots help

Cobots handle repetitive packaging and palletizing tasks safely alongside humans. They reduce strain, speed up fulfillment, and let workers focus on more strategic roles.

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4 Electronics – Delicate Component Handling

Industry Challenge

Electronics assembly involves fragile parts requiring high precision. Manual work risks damage, static, and contamination, especially in cleanrooms.

How Cobots help

Cobots with force control and vision systems ensure precise handling of microchips and connectors. Ideal for delicate tasks, they support small-batch production and rapid changeovers.

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THANK YOU

Contact us at info@bpicybernetics.com now!

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