De-risking with Robotiq

VALIDATE YOUR CELL DESIGN FOR FREE

What is de-risking?

De-risking is a vital step in any automation project.

It means sorting through all your unspoken assumptions and lingering questions—and pinning down the answers.

When should de-risking be done?

The ideal time to de-risk is after you've qualified the application, when you have the plans for the project's scope, timeline, and budget in hand.

*START
PRODUCTION
FASTER*

LEAN

ROBOTICS

How do I de-risk my project?

To de-risk a project:

1. Identify all the questions that arose during the design phase that you still haven't answered.

2. Record your "best guesses" regarding the unanswered questions; these will be your hypotheses.

3. Set your confidence level for each hypothesis, and identify questions for which it is critical to get the right answer.

4. Perform a validation for every critically important hypothesis about which you have low confidence.

See the table below for an example.

Unanswered question	Hypothesis	Confidence level (low, medium or high)	Is it critical to have the right answer? (yes/no)	Potential validation method	Estimated time and cost of performing validation
Will the camera be able to find the input part reliably?	*Yes.*	*Low.*	*Yes.*	*Conduct a test with the robot, camera, and parts.*	*The supplier can perform the validation in one day of work.*

Adapted from Lean Robotics, p. 141.

How do I validate a hypothesis?

There are two ways to validate a hypothesis: one theoretical, the other practical.

For a theoretical validation, it's important to think your application through carefully—contact our experts for help!

For a practical validation, you'll need to develop a proof of concept (PoC).

What's a PoC?

A PoC is an experiment that's designed to test an identified risk—your hypothesis—within a specific application.

This experiment can either be virtual (meaning it's done via simulation), or real, meaning it's performed with an actual robot.

Are there any shortcuts?

Yep—the simplest way to start is with **Blueprints**.

Just input a few details about your project, and one of our integration coaches will guide you through the de-risking process.

YOUR COACH CAN EVEN PREPARE A CUSTOM POC — **ALL FOR FREE!**

Your PoC might include:

- Videos
- 3D renderings
- Custom programming samples
- Automation recommendations