

[NEW IN UNILOGIC]



HAS ARRIVED IN UNILOGIC

The Fastest Way from Machine
Requirements to PLC Logic With AI.

[WHY IT MATTERS]

UNILOGIC JUST GOT SMARTER.

UP TO:

80%

LESS CODING TIME

SPEC -> LOGIC IN

MIN

NOT DAYS

FROM THE START

DAY 1

JUNIORS HIT THE
GROUND RUNNING



THE SHIFT



UNILOGIC AND AI NOW SPEAK THE SAME LANGUAGE.

Generate, review, and modify PLC logic faster than ever before.

No new tools. No prompt engineering. No steep learning curve. Just describe the machine — and the new UniLogic AI does the rest.



WHY IT MATTERS

01

CUT DEVELOPMENT TIME

From spec to logic in minutes, not days.

02

GUIDED WORKFLOW

No prompt engineering – just answer questions about your machine.

03

REUSE PROJECT CONTEXT

Existing tags and I/O are included automatically.

04

YOUR AI, YOUR CHOICE

Works with Claude, ChatGPT, Gemini & more.

05

SIMPLIFY PROGRAMMING

Complex ST logic generated, structured, and documented.

06

FASTER TIME TO MARKET

Deliver machines faster with less manual effort.

07

UNILOGIC RULES BUILT IN

AI already knows what UniLogic supports – no guessing.

08

REVIEW & IMPROVE CODE

Let AI audit your logic and flag potential issues.

09

ANY SKILL LEVEL

Junior engineers produce senior-quality logic from day one.

01

MEET THE AI PROMPT WIZARD.

Most engineers aren't prompt engineers — and they shouldn't have to be.
The Wizard builds the professional prompt for them.

**PROMPT
ENGINEERING** → **WIZARD
WORKFLOW**

Structured questions.
UniLogic rules.
Project context.
Ready-to-run prompt.

[HOW IT WORKS]

FOUR SIMPLE STEPS.

01

Mode & Domain

Choose generate, modify, review or document — and the application domain.

02

Requirements

Describe functional scope, control philosophy and safety — in plain words.

03

Project Context

Pick the I/O, structs and global tags already in your project.

04

Prompt Summary

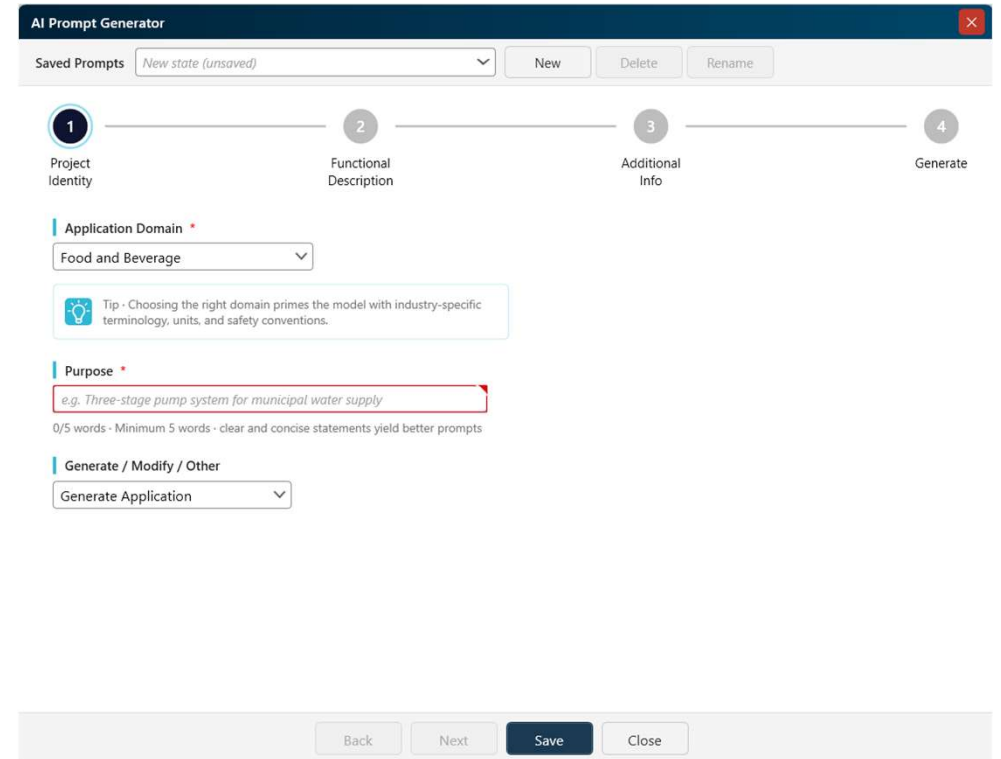
Review the assembled prompt and pick your target AI model.

[STEP 1 · SETUP]

START WITH THE MACHINE.

No blank page. The engineer simply tells the Wizard what they want to do and what kind of machine it is.

✓ Contextual tips appear at every field, so anyone can get it right the first time.



AI Prompt Generator

Saved Prompts New state (unsaved) New Delete Rename

1 Project Identity 2 Functional Description 3 Additional Info 4 Generate

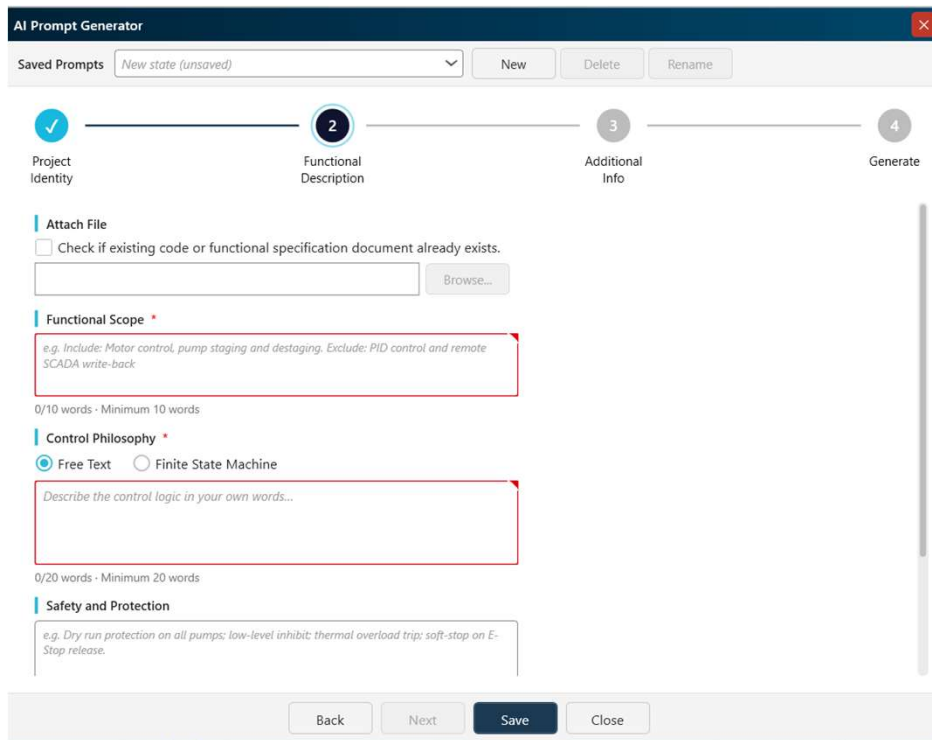
Application Domain *
Food and Beverage

Tip - Choosing the right domain primes the model with industry-specific terminology, units, and safety conventions.

Purpose *
e.g. Three-stage pump system for municipal water supply
0/5 words - Minimum 5 words - clear and concise statements yield better prompts

Generate / Modify / Other
Generate Application

Back Next Save Close



AI Prompt Generator

Saved Prompts: New state (unsaved) New Delete Rename

Progress: 1. Project Identity (✓) 2. Functional Description (2) 3. Additional Info (3) 4. Generate (4)

Attach File

☐ Check if existing code or functional specification document already exists.

Browse...

Functional Scope *

e.g. Include: Motor control, pump staging and destaging. Exclude: PID control and remote SCADA write-back

0/10 words - Minimum 10 words

Control Philosophy *

☒ Free Text ☐ Finite State Machine

Describe the control logic in your own words...

0/20 words - Minimum 20 words

Safety and Protection

e.g. Dry run protection on all pumps; low-level inhibit; thermal overload trips; soft-stop on E-Stop release.

Back Next Save Close

STEP 2 · FUNCTIONAL DESCRIPTION

DESCRIBE IT IN PLAIN WORDS

The engineer describes functional scope, control philosophy and safety — in plain language. No syntax. No structure to learn.

✓ **Guided fields and inline examples keep every description clear and specific.**

AI Prompt Generator

Saved Prompts

New state (unsaved)

New

Delete

Rename

Project Identity

Functional Description

Additional Info

Generate

Select relevant Global Tags

Search...

	Name	Type	Description
☐	MB	BIT[512]	Memory Bits Array
☐	MI	INT16[256]	Memory Integer Array
☐	ML	INT32[32]	Memory Long Array
☐	DW	UINT32[32]	Double Word Array
☐	MF	REAL[64]	Memory Float Array
☐	XB	BIT[64]	X Bits Array
☐	XI	INT16[32]	X Integer Array
☐	XL	INT32[16]	X Long Array
☐	XDW	UINT32[16]	X Double Word Array

System Tags

Select relevant System Tags

Back

Next

Save

Close

STEP 3 · CONTEXT

IT ALREADY KNOWS YOUR PROJECT

The Wizard reads the I/O, structs and global tags already defined in your UniLogic project — so nothing is typed twice.

- ✓ **Generated code maps straight onto the variables your machine already uses.**

STEP 4 · SUMMARY

YOUR PROMPT, YOUR AI.

The Wizard assembles a structured, professional prompt — loaded with UniLogic rules and project context — ready to run on the model you choose.

- ✓ **Generated Structured Text** imports straight back into UniLogic.

AI Prompt Generator

Saved Prompts

New state (unsaved)

New

Delete

Rename

✓

Project Identity

✓

Functional Description

✓

Additional Info

4

Generate

Prompt Summary

Prompt Summary	
Domain	Food and Beverage
Purpose	hytyh thtyh tryhtyh rthth rth
Generate	Generate Application
Control Philosophy	Free Text
Modes	Auto, Manual, Maintenance, Off
Units	Metric

Target LLM

☀

Claude (Anthropic)

▼

Back

Generate

Save

Close

[ONE WIZARD, MANY JOBS]

WHAT IT CAN DO.

01 Generate Logic

From machine requirements to Structured Text — in minutes.

02 Modify Existing

Update, extend or adapt logic already in your project.

03 Code Review

Let AI review your logic and flag potential issues.

04 Documentation

Auto-generate comments and documentation as you build.

05 Code Porting

Let AI adopt 3rd party code (IEC or any other logic) to UniLogic



THE RESULT

A structured, professional prompt — ready for any AI platform.

The generated Structured Text imports directly back into UniLogic, with variables, functions, enums and structs created automatically.

NO PROMPT ENGINEERING REQUIRED.

The quality of the AI output depends entirely on the quality of the prompt. A vague prompt produces vague code — so UniLogic builds the professional prompt automatically.



[AVAILABLE NOW]



JUST DESCRIBE THE MACHINE — AI AND UNIOLOGIC DO THE REST.

Less time writing logic. More time engineering the machine. Talk to your local Unitronics distributor — or schedule a live demo.

UNITRONICSPLC.COM →

