



ProPilot Pro Tips

Be Specific to Get Better Answers

- State your goal clearly and give relevant context.
- Include examples, code, or text you want improved.
- State “LM358 op-amp” instead of just “op-amp”.
- Provide pin numbers for IC connections.

Always ask Smart, Reasoning-Based Questions

- Use follow on prompts like:
“Are you sure?”
“Explain the logic behind that.”
- This helps the AI clarify and improve its answers.

Ask Electronics Questions, ProPilot:

- Trains on electronics and engineering knowledge.
- Understands schematics and simulation results.
- Excels at analysis, tracing, and block-level reasoning.
- Assists in validating and explaining design decisions.

Ask Help Questions

- Accesses the full Proteus Help system.
- Understands your design with context-aware guidance.
- Collates info from all help files for complex queries.
- Offers support across schematic, PCB, and more!

Consider Tier 2 Access Early

- AI model rate limits may affect performance.
- Upgrading to Tier 2 dramatically improves capacity.
- You can then use the credit over months.
- Recommended for smoother, faster interaction.

AI Embedded Assistant

- Write and adapt code directly from the schematic.
- Use compiler output to fix errors or get explanations.
- Analyze circuit behavior from simulation graph results.
- Refactor code, add docs, and improve readability.

If It Stalls... Rephrase & Retry

- Change your wording or ask a smaller question.
- Be explicit — vague prompts lead to vague replies.
- Ask it for more information or justification.
- Try *“Please re-check your answer!”*.





Be Aware of Tokens and Chat Length

- Long chats use more tokens and may lose context.
- Watch the token counter (top-right of chat).
- Restart if replies get vague or off-track.
- Keep chats focused on a single task.

You're Still the Engineer!

- AI can boost productivity — but you are the expert.
- LLMs are powerful but not perfect — always double-check.
- Always review results, ask follow-ups, and guide the direction.
- You are the engineer. ProPilot helps, but you decide.

Examples:

-  *“Are my ICs all powered.”*
-  *“Check that all my ICs are connected to power nets.”*
-  *“My 555 timer isn't working correctly!”*
-  *“My 555 timer in astable mode. Can you help me calculate the output frequency given $R1=10\text{ k}\Omega$, $R2=47\text{ k}\Omega$, and $C=100\text{ nF}$?”*



“ProPilot brings context-aware AI directly into Proteus, combining schematic insight, simulation data, and embedded code generation to accelerate design, improve quality, and boost productivity across the entire workflow.”