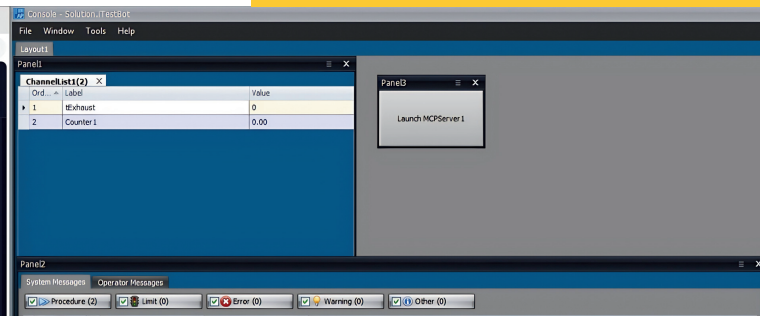
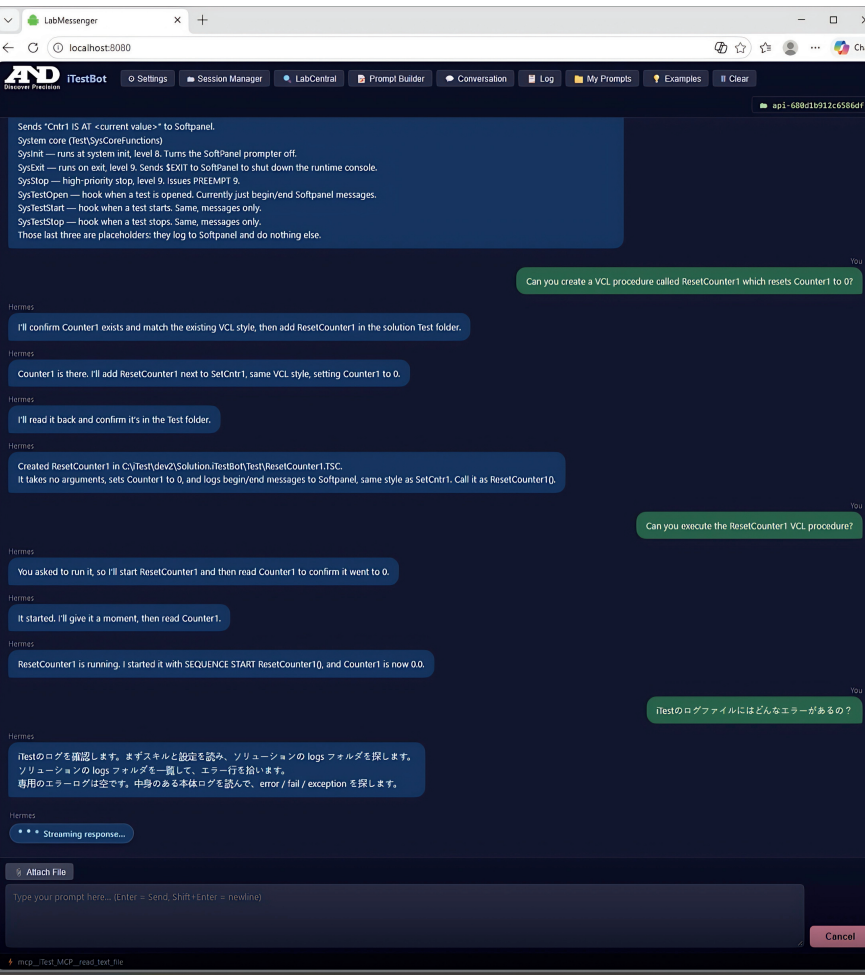




Generate. Troubleshoot. Analyze. Automate.

- Natural-language interaction with iTest
- Python and VCL code generation
- Automated script conversion & debugging
- Test data visualization and reporting
- Direct interaction with channels, drivers, and procedures
- Secure deployment options including local AI models
- User review and approval before changes are applied

iTest.Bot combines AI, official iTest documentation, and direct integration with iTest services to help engineers work faster and more efficiently. From writing automation scripts to analyzing test results, iTest.Bot acts as a knowledgeable engineering assistant while maintaining user control, review, and approval of all changes.



Faster Script Development

Generate, review, debug, and convert Python and VCL code from simple natural-language requests.



Smarter Troubleshooting

Quickly identify errors, explain existing logic, and diagnose issues across scripts, procedures, and test systems.



Intelligent Data Analysis

Turn test data into actionable insights with automated plotting, reporting, and trend analysis.

Capabilities & Example Prompts

Control & Monitoring

- What is the current value of all EtherCAT channels?
- Can you start a CANoe measurement with the CANoe driver?
- Set exhaust temperature channel to 30.
- If the exhaust temperature is in Celsius, what is the value in Fahrenheit?

Code Generation

- Write a VCL procedure to convert exhaust temperature from Celsius to Fahrenheit.
- Convert the ConvertTemp VCL procedure to a Python script.
- Write a Python script to apply a low-pass filter to exhaust temperature.

Data Visualization

- Plot demand vs. feedback from an iTest DAT file.
- Generate a power curve PNG from an iTest DAT file.
- Generate a BSFC 3D surface map from an iTest DAT file.

Test Development

- Create a schedule that ramps throttle to 100% and then back to idle over 30 seconds.
- Add a gauge to the main layout that shows exhaust temperature.
- Add a button to the main layout that can be used to start the Modbus driver.

Test Operations & Analysis

- Can you start the emission test?
- Summarize today's test run.
- Compare today's test run against the last 5 test runs.

Troubleshooting

- What are the errors in iTest's log files?
- Summarize what every VCL procedure and Python script in my solution does.
- Fix the bug in the low-pass filter Python script that makes the filter unstable.

Capability	Description
Read Channels	Access real-time channel values
Write Channels	Update channel values and setpoints
Read Scripts	Review Python and VCL code
Write Scripts	Create or modify scripts with approval controls
Execute Procedures	Run approved procedures from chat
Find Data Files	Locate test results and data files
Data Analysis	Generate plots, reports, and summaries
Documentation Search	Retrieve official iTest documentation and examples