

## How to Use the PERA Bot

Note that the PERA Bot is limited to the carefully curated material on the PERA website (several thousand pages on enterprise integration, cybersecurity, AI, Risk Management, etc.).

When you submit a “Prompt” to the PERA Bot you initiate:

- A search for relevant information (from the whole PERA website).
- A sophisticated analysis of the selected documents
- A report in the format specified by your Prompt.

The PERA Bot is an AI application called a “RAG” (Retrieval Generated Augmentation). It is not a Search Engine or other technology that produces responses based on predetermined answers. When you make an inquiry, the RAG always uses the latest available information to develop its responses including the full set of MLMs, User Guides, and Whitepapers.

There are multi-day courses available on how to construct Prompts to get the analysis and report that you had in mind, but we will leave this for a future MLM.

### Example PERA Bot Prompts and Responses

#### PROMPT 1

What is a GERUM?

#### RESPONSE 1

In the context of the Purdue Enterprise Reference Architecture (PERA), GERUM stands for "Generic Enterprise Resource Utilization Model." It is a framework used to understand and optimize the use of resources across an enterprise's operations. GERUM focuses on the effective allocation and management of resources, such as technology, personnel, and information, to enhance overall efficiency and productivity within an organization.

*<Note: This definition was provided in response to a senior enterprise integration educator. It was synthesized by the RAG after reviewing many different documents and creating its own original definition. The researcher said that it is one of the better definitions he has found.>*

## PROMPT 2

Which MLMs mention “trust”?

## RESPONSE 2

The following Micro Learning Modules (MLMs) mention "trust" in their discussions:

MLM-035-A: This module emphasizes a "Minimum Trust" security model for PLCs and other IACS devices, suggesting that for IT systems, a "Never Trust-Always Verify" approach is often applicable **【4:11†source】** .

MLM-035-B: This module guides engineers in programming and notes that designs should include "Security by Design" principles, promoting a foundation of trustworthiness within programming practices **【4:9†source】** .

These MLMs incorporate the concept of trust in the context of cybersecurity and operational integrity within industrial control systems.

*<This simple prompt saved me considerable time that I would have spent looking through 120 MLMs for references to cybersecurity “trust”.>*

## **Future Development**

As RAG and AI Agent technology develops, we plan to answer your questions about PERA in a spoken or written conversation with the PERA Bot.

In the long term, in addition to responses to Prompts, we plan to prepare and deliver custom courses (based on MLMs and Learning Maps). These courses will also incorporate information from analysis of prompts and conversations with that individual.

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