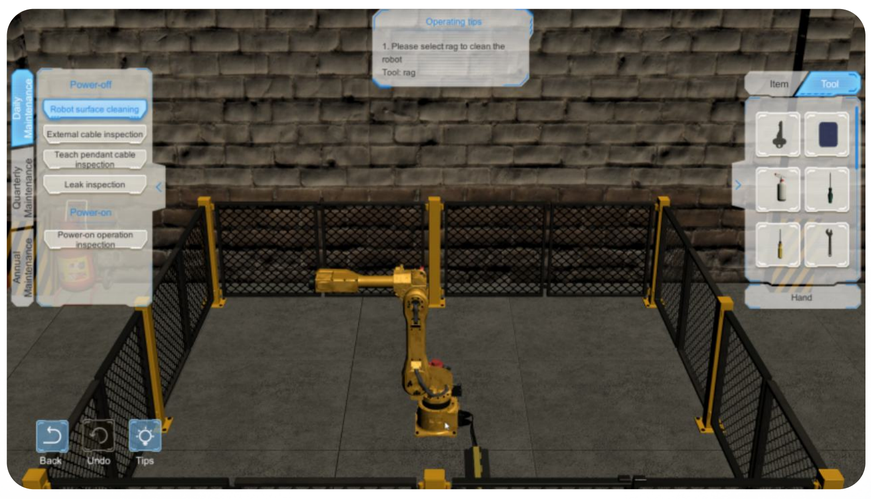
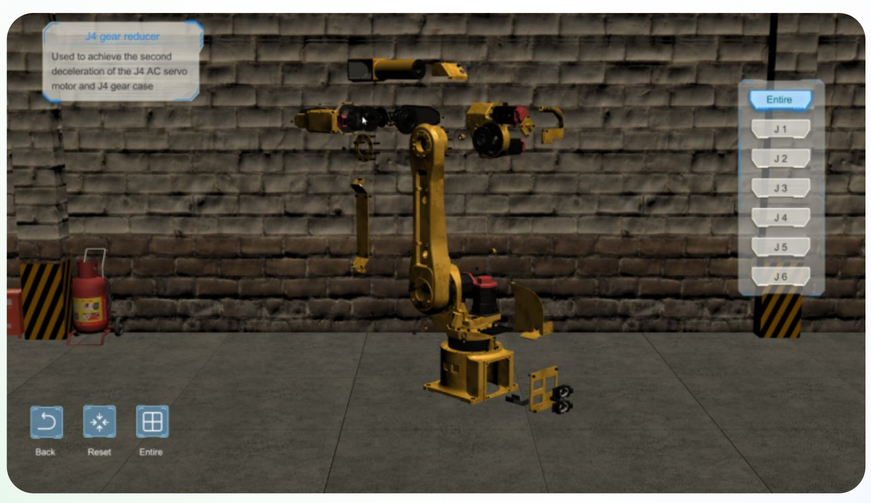
Industrial Robotics mechanic Software

Involves referencing **authoritative teaching outlines** and developing a proportional model using the **Fanuc robot prototype**. This model serves to simulate practical training operations of industrial robots in real production applications. By incorporating intuitive and user–friendly interactions, the software creates a virtual training room that offers students and teachers a fully **immersive experience in a 360-degree environment**. Students have the ability to not only rotate, zoom in and out, and drag the robot body but also explore the structural components of the six–axis industrial robot from all angles.



The system accurately replicates the assembly and disassembly operations of industrial robots, resulting in cost savings and mitigating high risks associated with physical consumption.

The system incorporates a wide range of tools and models to provide students with comprehensive practice opportunities and ensure a fully immersive experience.



In this software, you have the freedom to rotate or move any part freely, as well as zoom in or out to observe with greater detail.

Highlights

- **Visualizing Abstract Concepts:** The Industrial Robot Installation, Adjustment, and Maintenance VR Training System presents the knowledge points related to mechanical structures, understanding of principles, mechanical installation, safe usage, and maintenance of industrial robots in a three–dimensional format. This approach facilitates a better understanding of abstract concepts.
- **Comprehensive and Professional Content:** The software incorporates content from authoritative robotics textbooks such as "**Fundamentals of Industrial Robots**," "**Disassembly and Debugging of Industrial Robots**," and "**Application and Maintenance of Industrial Robots.**" It intelligently combines simulation training with VR technology, offering a comprehensive and professional learning experience that is realistic, clear, and easy to comprehend.
- **Versatile Device Compatibility:** The software is compatible with leading Desktop, All–In–One Virtual Holographic Interactive Desktop, enhancing the operational experience and presentation effects. Additionally, it can be adapted to ordinary PC devices, allowing students to engage in self–guided learning.

Functionalities

Modules	Component
Structure or Principle	Displaying the essential structure and working principle of Industrial robot
Disassembly	Students are allowed to disassemble an industrial robot step by step.
Safety	Standardize safe operation of industrial robots.
Maintenance	Displaying the maintenance procedure of industrial robots.