

## ChatGPT for simulation of assembly operations

The task is to teach chatGPT a set of assembly and measuring operations of precision measuring and assembly machines. These operations determine the sequences of the machine positioning system and the IO system so that the desired operation is realized.

Thus, they are the commonly known operations of picking up an element, positioning an element in a specified space, applying a fixing material / `glue`/ in a specified space. Also more complex operations of correction of the final target position using a camera or microscope, etc. Alternatively, more complex sequences of alternate picking of elements from multiple sources or sorting operations. The output from ChatGPT is a json file that can be directly processed in the 3D simulator.

This "chatGPT learning" solution should be considered as a prototype before we venturing into more sophisticated AI solutions for assembly and measuring machines, e.g. machines for measuring length or diameter, gluing machines or machines for assembling miniature components.

File for learning chatGPT

[<a href="http://industry40.online/pdf/TeachAssemblyNodes.pdf"></a>](http://industry40.online/pdf/TeachAssemblyNodes.pdf)



