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(57) Abstract :

A soldering assistive device for electronic boards, comprising of a housing 1 having a platform 2 for positioning of an electronic board that needs to be soldered, a touch interactive display panel 3 that displays a set of circuits, among which a user selects a desired circuit to work on for practicing soldering, a robotic arm 6 integrated with a motorized C-shaped clamp equipped with a soldering gun 7 that is aligned over board and held manually by user while performing soldering, a projector 4 configured on a ceiling portion inside the housing 1 that projects a virtual image of the selected circuit over the board, a primary artificial intelligence enabled image capturing module 8 for assisting user in properly visualizing the soldering operation, a pneumatically operated telescopic rod 10 integrated with a hydraulically operated claw type arrangement 11 configured with test probes 12 for evaluating quality of soldering.

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