Axis Delta Robot Using HMI & Mapp Robotics for Pick and Place

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Abstract: *In this project, this project going to make a machine centric robot which will be controlled for a certain process using Mapp Robotics and HMI screen will be developed for the robot. This 4-axis robot is controlled for the desired application. It has 3 drives connected to 6 motors, by controlling the drives and motors, a synchronized motion of the manipulator is performed which results in a robotic application, for example the manipulator of the robotic arm will trace 'B&R'. Operator can control the robot automatically and manually by giving commands through HMI as well. This robot will perform tasks on the basic of structure text (type of CNC programming) written on the program.*

Keywords: Robotic Arm, Mapp Robotics, HMI, Structure Text Programming, Scene Viewer, Automation Studio, Communication, 4-Axis, VNC Viewer, PLC, etc.

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