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parametrize the robot's configuration space. Often the coordinates of choice are the joint variables, and the configuration space can be parametrized either explicitly or implicitly in terms of these joint variables. Also, to grasp and manipulate objects, a robot is typically equipped with an end-effector, e.g., a mechanical hand or gripper.

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uration of robots as well, from the simple pick and place and painting and welding robots, to more sophisticated assembly robots for inserting integrated circuit chips onto printed circuit boards, to mobile carts for parts handling and delivery. Several areas of robotic automation have

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