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Robotics

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| **Across**  **2.** The procedures use mathematical algorithms along with joint sensors to determine its location of a robot  **6.** re-programmable multifunctional manipulator designed to move material, parts, tools, or specialized devices, through variable programmed motions for the performance of a variety of tasks  **7.** This is commonly used as a non-contact sensor for robots. Robotic applications include: distance finding, identifying accurate locations, surface mapping, bar code scanning, cutting, welding etc.  **11.** The study of motion, the forces that cause the motion, and the forces due to motion.  **14.** removes drive power from the robot actuators, and causes all moving parts to stop.  **16.** It help the robot to determine the environment of the robot like light heat.  **18.** predicting the behavior and the operation of a robotic base the look of it  **19.** It can determine a position and orientation of an object in space, as well as the robot's position within its model.  **20.** able to add resources to the system, such as memory, larger hard drive. | **Down**  **1.** The robot predicting the behavior and the operation of a robotic, kinematics emulation, path-planning emulation, and simulation of sensors. See Sensor, Forward Kinematics, and Robot.  **3.** devices or computers separate from the robot for later input of programming information to the robot.  **4.** industrial robotic arm transfers materials from one place to another.  **5.** It moves and use mostly on this I can work will out it  **8.** It can work without you can build fine and it not being supporter by something  **9.** Follows commands you tell the robot  **10.** I help the robot move it arms or move  **12.**  An information processing device whose inputs are both the desired and measured position, velocity or other pertinent variables  **13.** object to the workplace by gravity. Usually, a chute or container is so placed that, when work on the part is finished, it will fall or drop into a chute or onto a conveyor with little or no transport by the robot  **15.** Computer aided design can be say in a short way is  **17.** This items we use to build buildings fix robot house. |