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Robotics Terms

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| **Across**  **2.** Czech word that loosely means "compulsive servitude.”  **7.** A multifunctional, reprogrammable manipulator designed to move parts, tools, specialized devices, or materials through variable programmed motions to perform a variety of tasks  **8.** a being with both artificial and biological parts  **10.** software used for Computer Aided Drafting and Design  **12.** a vehicle or robot that can perform a task or go from one point to another without human input  **14.** organization founded by Dean Kamen to inspire students to pursue engineering and technology fields and learn gracious professionalism  **15.** Also called hexapod, a movable platform using six linear actuators. Often used in flight simulators and fairground rides, they also have applications as a robotic manipulator.  **17.** a part on a robot used like a hand or gripper  **18.** the main structure of the robot  **19.** consists of a powered method of mobility like legs, or gears, axles and wheels  **20.** highly advanced artificial intelligence network that will eventually lead to Judgement Day and release an army of Terminators. | **Down**  **1.** the science and technology behind the design, manufacturing and application of robots.  **3.** A manipulator under direct human control, often used for work with hazardous materials.  **4.** A form of motor that generates a linear movement directly.  **5.** machines that extend human capabilities  **6.** equivalent to the central nervous system of a human  **9.** a programmable mechanical device that can perform tasks and interact with its environment, without the aid of human interaction  **11.** the use of compressed gas to control to generate and control mechanical force and movement  **13.** a motor that moves to and maintains a set position under command, rather than continuously moving.  **16.** creating something that performs the same action over and over |