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Robotics for kids

I want to work with my daughter to build a fun robot but it seems that there are some many choices out there for platforms, controllers, software etc. I think I'm leaning towards a platform from DFrobot. . Val4sZNVhBc And an Arduino based controller like this, . Val45pNVhBc To check and make it move I'm thinking that Ardublock might be a good choice. I'm curious if this community has any thoughts about my choices... alternative ideas. Thanks, phil word robot is not well defined, at least not for the time being. There is a lot of debate within science, technology and hobby communities about exactly what a robot is, and what it isn't. If your vision of a robot is a somewhat human-looking device that executes orders on command, then you think of a type of device that most people recognize as a robot. It's not a regular one and not practical yet, but it does make a great character in science fiction literature and movies. Robots in other, more common guises are much more common than many people think, and you likely encounter them every day. If you've taken your car through an automatic car wash, withered cash from an ATM, or used a vending machine to take a drink, you probably interacted with a robot. A common application of the term robot is for a machine that performs a series of actions automatically and is typically programmed by a computer. However, this working definition is very broad; it allows many common machines to be defined as robots, including ATMs and vending machines. A washing machine meets the basic definition of being a programmed machine; it has different settings that allow you to change the complex tasks that it performs automatically. Yet no one thinks of a washing machine like a robot. In reality, additional properties distinguish a robot from a complex machine. Foremost among these is a robot's ability to react to its environment independently to modify its program and complete a task, and it recognizes when a task is complete. Robot: A machine that can react to its environment autonomously to automatically perform complex or repetitive tasks with little, if any, direction from a human. Using this definition of a robot, take a quick look at robots in general use: Industry: Robots were put to use in industry early, starting with Unimate, a robot designed by George Devol in 1959 for General Motors. Ultimate was considered the first industrial robot and was a robotic arm used to manipulate hot die-cast parts in car manufacturing, a task that was dangerous for humans to perform. Medicine: Robots perform surgery, assist in rehabilitation, automatically disinfect hospital rooms and surgical suites, and a host of other tasks. Consumer Electronics: Perhaps the best recognized Roomba vacuum cleaner, which automatically cleans the floors around your house. Along the same lines are robotic lawn mowers that keep your lawn trimmed for you. Robots you didn't know were robots: This long list includes items you come across every day but probably don't think of as robots: automatic car washes, speeding and red light cameras, automatic door openers, elevators, popular children's toys, and some kitchen appliances. Modern robotdesign, known as robotics, is a branch of science and technology based on mechanical engineering, electrical engineering and computer science to design and build robots. Robot design covers everything from robotic arms used in factories to autonomous humanoid robots called androids – synthetic organisms that replace or extend human functions. Leonardo da Vinci was a pioneer in robot design. Leonardo's robot was a mechanical knight who could sit up, wave his arms, move his head and open and close his jaws. In 1928, a humanoid robot named Eric was shown at the annual Model Engineers Society in London. Eric gave a speech while he touched his hands, arms and head. Elektro, a humanoid robot, debuted at the 1939 New York World's Fair. Electro was able to walk, speak and respond to voice commands. In 1942, science fiction writer Isaac Asimov's short story Runaround introduced the three laws of robotics, which were said to be from the fictional Handbook of Robotics' 56th edition, 2058. The three laws, at least according to some science fiction novels, are the only safety features necessary to ensure the safe operation of a robot: A robot must not harm a human being or, through inaction, allow a human being to be harmed. A robot must obey the orders given to it by a human except where such orders would violate the first Law.A robot must protect its own existence as long as such protection does not violate first or second laws. Forbidden Planet, a 1956 science fiction film, introduced Robbie the robot, the first time a robot had a distinct personality. Star Wars and its various droids, including BB8, C3PO and R2D2, are familiar characters on any list of robots in popular culture. The Noam Galai/Getty Images Data character in Star Trek pushed the boundaries of android technology and artificial intelligence, leaving some viewers wondering at what point an android achieves sentience. Robots, androids and synthetic organisms are all devices created to help people in different tasks. Current events and advances have put robotics into our daily lives, whether we realize it or not, and their relevance will continue to increase in the future. Thanks for letting us know! Tell me why! Robotics is the science of creating artificial intelligence. From the simplest of automated machines to the most complex real transformers, robots are more ubiquitous than you might think. Artificial intelligence is becoming more and more mainstream than its origins science fiction geekdom, from the hit HBO show Westworld, to the quirky character of Janis in NBC's The Good Place, robots popping up everywhere! But if you're looking for a cartoon for your kids who have robots, androids and kid geniuses, you've come to the right place. The following five performances are perfect for your child's obsession with robots. Be sure to set up your DVR to record these network hits or catch some on Hulu and Netflix! A less serious version of transformers bots of movie franchise or Prime fame, these robots help keep an island of people in Griffin Rock, Maine safe from harm. The Autobots featured are different than you might recall: a police cruiser named Chase, a fire truck named Heatwave, a helicopter called Blades and a bulldozer named Boulder round out the robot crew. The animation is a bit cutesy, but the writing is witty and humorous. It also includes the voice of LeVar Burton (from Reading Rainbow and Star Trek: The Next Generation), so that ups its cool factor to about eleven, especially for parents who were young in the 1980s. Younger robot fans will enjoy this show because it is not aimed at the same audience as other incarnations of Transformers. The Hub Network These are transformers bots you're used to if you grew up watching the Transformers animated series in the 1980s or even just watched the Transformers movie franchise. Optimus Prime and the Autobots battle megatron and deceptions in an effort to keep Earth safe from their evil. They have befriended human children Jack, Raphael and Miko, and get intelligence help from Special Agent Bill Fowler. This iteration of the popular show is presented in more of a serial format. High in action and tech talk, it's admittedly better suited to your older robot enthusiast. Adorable little animal robots, living in a robotworld, work together to solve problems for other adorable robot animals. Each Animal Mechanical has its own special strength-Unicorn flies, Mouse is super fast, Komodo (a lizard-like animal) can produce any tool or gadget needed, Rex (a dinosaur) is super strong and Sasquatch (a slightly monkey-like creature) is super stretchy. The program works to teach children how to think constructively to solve everyday problems using the resources they have available to them at the time. Their motto is Can we do it? We Animal Mechanical can! This show is aimed at younger viewers, but I think older robot lovers will enjoy them too. They're too cute not to make love! Nickelodeon Studios A boy genius with a giant head and perfectly coiffed hair has a secret science lab under his backyard clubhouse in the small town of Retroville, where he builds various robotic inventions. Unfortunately, the titular star Jimmy Neutron has only a few successful robot inventions so far, namely his robot dog Goddard. Most of his inventions, however, go horribly and he and his buddies end up saving the city time and and Again. His poor mother Judy fears for the safety of her kitchen appliances, which Jimmy is known for borrowing and improving them regularly. The show originally aired on Nickelodeon and is available for streaming as well as on most Nick-owned cable networks. Children of all ages will enjoy Jimmy's antics with their friends Sheen, Carl, Cindy (the girl who secretly has a crush on him) and Libby. Nickelodeon Studios This cartoon from Nickelodeon features-what else-a robot and a monster who are friends. The robot is the voice of Curtis Armstrong (Booger from Revenge of the Nerds film series and voice snot on FOX Network's American Dad) and Monster is the voice of Harland Williams (stand up comedian and the guy who killed the horse in the movie Half Baked). The cast is chalkfull of famous voices with the likes of Rhea Perlman (Carla from Cheers) as the chef and waitress of their favorite eatery, Makin' Bacon, and Jonathan Slavin (Phil the Scientist from Better Off Ted) as an annoyingly nerdy robot who just wants to be friends with Robot and Monster. This show is probably most suitable for ages 6 and up, but my young son and I enjoyed it equally. There is a lot of slapstick humor as well as snappy writing that will appeal to different age groups. Groups.

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