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This is my guide to creating an electric bike. In this instructable, I'll show you what I did as well as how to build my own version. I understand that you most likely won't follow my steps exactly, so I tried to make this guide as adaptable as possible. Since I'm still working on my project, I'll update this periodically when I have something relevant to add. I'll be uploading photos of my work soon. Determine what the use of the bike will be. This includes quite a bit of research into what others have done as well as what works best for you. Some good questions you should ask yourself before you get started: What will this bike be used for? How many miles will it have to drive before recharging? How fast will it have to go? What is your budget restraint for a bicycle? These are important things to consider before you get started. If you don't set your project's parameters before you get started, expect it to fall out of the way and not meet your expectations. While you can finish this project without spending anything, it is likely that you will have to spend some at some point. It's best to decide how much you're actually willing to spend on the project before you start. If you are willing to spend more, there will be absolutely better bikes that you could buy than you probably can ever do. With larger means, there will always be better batteries, engines, frames and controllers. That being said, often there are many components that can be salvaged or found. A list of materials you'll need: Bike frame. It can be an old or recently purchased model. I have used the bike that I have had since I was a kid that I no longer used. Engine. I chose an electric motor for my project. If you want, a small engine on the gas will work. The specific engine that I used was one of the donated treadmills. Battery. You may choose to have a larger battery, but it will be harder to install on the frame as well as weighing much more than necessary. Instead, I used cells from donated laptop batteries that I plugged together. Switch or controller. There are countless options ranging from just a light switch to an actual throttle on the handle bars. I decided to use a simple black light switch from Home Depot. Before you start building a bike, you have to decide how to transfer the rotational energy from the engine to the wheel on the bike. The methods I've seen range from: Sprocket engine connectivity to existing gear on the rear wheel-connecting the engine directly to the center of the rear wheel. Using a friction drive in which the engine turns the wheel. Another wheel that rolls on the main wheel I do not recommend putting the engine on the front wheel because the engine completely throws off the balance of the bike. You will have to build a machine to keep both the battery and the engine. Most bikes have a point of connection with freight rack, and you have to use it to your advantage. From here you can buy an existing cargo rack and change it to suit your needs, or you can build your own. I built my own cargo rack with salvaged aluminum bars. Off this cargo rack, connected by thin steel plates that gave the cargo rack a platform for the battery seat. For batteries, I removed the cells from portable batteries, and 3D printed two units to contain 10 of the 4 volt batteries. I plugged the engine, bolted it right on the frame. Hopefully you will finish your project and it will, if nothing else, at least experience. Unfortunately, my bike didn't quite reach the finished product, but as the saying goes, I had two successful live tests carrying me around the school parking lot. The biggest problem I encountered was the connection between the batteries. I could definitely overcome this problem if I used my time during this semester more wisely. If nothing else, I still work the bike I started with it. Also, I could just buy working batteries on Amazon, but with that being said, it would be over, however I wouldn't have learned nearly as much in the process. Go to the main contentself does not give medical advice, diagnosis or treatment. Any information published on this site or this brand is not intended as a substitute for medical advice and you should not take any action before consulting a health professional. TopicsBikebikingCommuteWorkGet exclusive workouts, fitness tips, gear and clothing recommendations, and tons of motivation with our weekly fitness newsletter. Newsletter. self charging electric bike kit. self charging electric bike uk. self charging electric bike for sale. self charging electric bike in india. self charging electric bike project report. self charging electric bike pdf. diy self charging electric bike. how to make self charging electric bike

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