

Great idea about a robot that can find and charge electric vehicles on its own

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Besides the price, one of the factors that hinders the popularity of electric vehicles is charging. In order for electric vehicles to be widely used as current fossil fuel vehicles, we must have at least the same number of charging stations as petrol stations. Building such a huge infrastructure is of course extremely costly and time consuming. That's not to mention the time for fully charging the battery in an emergency is also a major problem facing the electric vehicle industry.

Facing that difficult situation, the largest car company in Germany Volkswagen has devised a really useful solution: Develop mobile robots that can automatically find and charge batteries for electric cars anywhere they'll be sent to. This robot will be able to communicate with the car itself, open the cover of the charging socket and charge the car battery completely without any human interaction. It is equipped with camera, laser scanner and ultrasonic sensor, which can move freely and avoid obstacles easily.



This robot can be considered an intelligent mobile charging station, carrying with it an energy storage unit of about 25 kilowatts. It can go to the location of the vehicle that needs to be charged, do its job, then return to the previous location via a mobile application or vehicle communication.

With the idea of this intelligent charging robot, Mr. Mark Möller, Development Manager of Volkswagen Group, believes that it can help solve the need of charging electric vehicles in areas where the installation of charging stations is not convenient (like underground parking or other difficult renovated locations). Not only that, Volkswagen's robot will also help partially solve the need for electricity related to the ability to handle hundreds of thousands and millions of electric cars when this type of vehicle becomes popular in the future.

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