

Smart Card Based Electric Vehicle Charging Station

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Abstract: *The development of cost-effective green vehicle technology, such as electric vehicle has been prompted by the need for a cleaner environment. As the number of electric vehicle (EVs) on the road rises, charging infrastructure becomes increasingly important. The electric vehicle charging system has a number of issues, including ways to improve its operation and efficiency and a better understanding of current EV charging habits. As a result, this paper employs RFID (radio frequency identification) technology, which allows users to be automatically identified. Electromagnetic waves are used to transmit and receive data from users in this technology.*

Keywords: RFID, Electric Vehicle, Microcontroller, and Charging Station

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