AUTOMATIC CAR WASHER

INTRODUCTION

Automation is a need of time. Today in this modern era automation helps us to save time, cost as well as manpower. Vehicles are used extensively for transportation. It is also important to have easy and effective system for maintaining the vehicles cleanliness. In developed countries automatic continuous automatic car washing system is already developed and is being used extensively. In developing countries like India it is still uncommon and has lots of potential for development of such system and design.

Our project automatic car washing is an Arduino based project. It is a prototype in which a car enters a washing station and automatically gets cleaned up. Car washing can be done at spaces where cars can be parked for a long time and washing car can be done easily like fuel filling stations, super markets, hospitals, government buildings, railway stations etc. We have used various components in this project such as conveyer belt, sensors, dc motor, brushes and dryer. All these components are controlled using PLC. Our car washing system has three main processes namely washing, cleaning and drying; hence the exterior of the car will be washed by detecting the car on conveyor belt and further controlled by Arduino controller board. The main aim of this project is to use less water, more efficient washing. Practically at home we use 150 gallons of water but using this process on 35 gallons of water gets used up. Also washing vehicles with hand produces tiny scratches which are overcome using this method. Hand washing does not clean up the car completely but using this process we can clean up the car up to 95%.

BLOCK DIAGRAM