AUTOMATIC CAR WASHING SYSTEM USING MICROCONTROLLER

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ABSTRACT - *This paper presents the proposal and development of a programmed sensor-based carwash system. The system provides quick, convenient, and efficient washing services. The main steps involving in the car wash system consists of car peripheral planning, adjustment of nozzles based on car peripherals, and smearing various washing practices. In the initial step, object planning is achieved using a suitable sensor system. Subsequently, data acquired from sensors is processed and the relevant information regarding the car periphery is stored. Lastly, the status of the nozzles is adjusted (at a suitable position/angles) based on the car peripheral planning. Once the nozzles are adjusted to appropriate angles, the washing process is initiated that includes foam spray, water spray, and drying. In this paper, the simulation model of the proposed followed by the development of a small-scale hardware prototype. With the information merged in the design, the developed system is capable to clean off considerably the exterior dimensions of objects for efficient washing method*

Key Words: car wash, car peripheral planning, atmega16, ultra-sonic sensors

1. INTRODUCTION

Automatic Car-Washing is controlled using the electro-mechanical system as shown. A proto-type model is executed in our project. Automatic washing was started way long before in the 1930s. Overtime, many apprising's were done on it in the previous method car was to be lifted to wash downside. We are using angular jet spraying using nozzles at a suitable position which helps cleaning downside more easily the full mechanism includes the rolling of the car and moving it on a conveyor belt in a forward direction in steps. At transitional steps, the car cleaning is done with water in real form and soap water is allowed to fall on the car under wash. Care is taken for not allowing the water to fall on the fabrication. also suspended front rollable brushes are installed to clean the upper side neatly at the end the car is again allowed to move forward for drying. Belt Returns for loading a new car

2. MICROCONTROLLER

Atmega16 is a controller that can power most of the machines very straightforwardly. The atmega16 is just doing precisely what the human software engineer instructed them to do. atmega16can without much of a stretch run numerous machines. At the point when running a microcontroller program, a visual operation can be seen on the screen. A microcontroller system can be tried, approved, and remedied sparing an exceptionally important time. With wired hand-off sort boards, any project change requires time for the rewiring of boards and gadgets. The programs are written can be confirmed and tartan before closing putting in place and it can be modified at any time without alarming any physical changesATmega16 is an 8-bit high presentation microcontroller it belongs to AtmeTs Mega AVR family. It's a 40-pin microcontroller based on enhanced Reduced Instruction Set Computing architecture with many powerful commands. It has a programmable flash memory of 16KB, static RAM of 1 KB, EEPROM of 512 Bytes. The resolution cycle of flash memory and EEPROM is 10,000 and 100,000, correspondingly. Most of the commands execute in one machine cycle. It can work on an extreme frequency of 16MHz
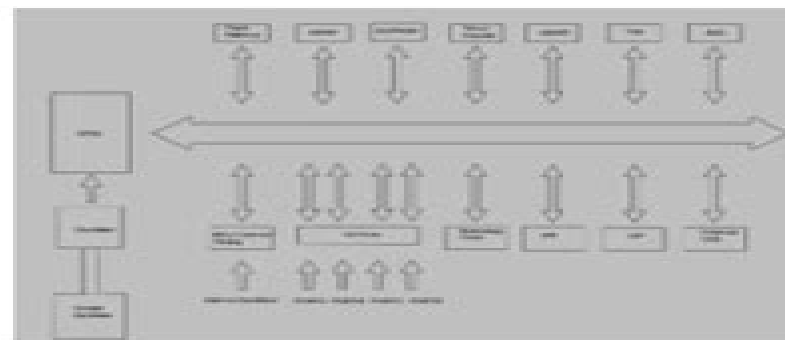

Figure -1: Atmega16 Architecture

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using the book for a course **Microcontroller Technology** Peter Spasov,2004 CD ROM contains source code and a special demo version of the THRSim11 simulator *Electronics: A First Course* Owen Bishop,2007-06-07 Owen Bishop s First Course starts with the basics of electricity and component types and introduces students to practical work almost straightaway No prior knowledge of electronics is assumed The approach is student centred with Self Test features to check understanding and numerous Activities suitable for practicals homework and other assignments New Multiple Choice Questions are incorporated throughout the text to aid student learning Key facts formulae and definitions are highlighted to aid revision and theory is backed up by numerous examples within the book Each chapter ends with a set of problems which includes exam style questions with numerical answers provided This text is ideal for a wide range of introductory courses in electronics technology physics and engineering The coverage has been carefully matched to the latest UK syllabuses including GCSE Electronics GCSE Design temperature and resistance sawtooth waveform fundamentals of digital communication and data transmission industrial processes cells and batteries wind and solar power CDs DVDs mobile phones and the latest LED technology Owen Bishop s talent for introducing the world of electronics has long been a proven fact with his textbooks professional introductions and popular circuit construction guides being chosen by thousands of students lecturers and electronics enthusiasts Companion website A new companion website features animated circuit diagrams to indicate the flow of current calculators to help with elementary electronic design project work answers to revision questions and multiple choice questions in the book as well as essential circuit diagrams and illustrations from the text made available as PowerPoint slides for lecturers to use in presentations and handouts http books elsevier com companions 0750669608

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