

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 very long before in the 1930s. Overtime, many aprising'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. atmega16 can 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 changes. ATmega16 is an 8-bit high presentation microcontroller it belongs to Atmel's 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.

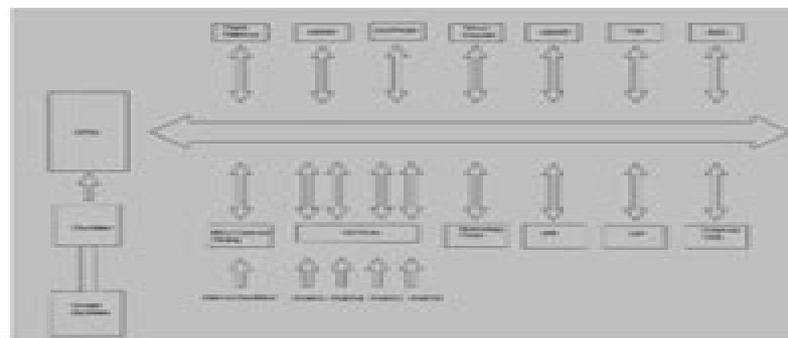


Figure -1: Atmega16 Architecture

Automatic Car Washing System Using Microcontroller

Martin Bates



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well as to experienced users of microcontrollers An Instructor s Manual ISBN 0 13 033248 8 is available free of charge to instructors using the book for a course *Innovations in Computer Science and Engineering* H. S. Saini,Rishi Sayal,A. Govardhan,Rajkumar Buyya,2021-04-23 This book features a collection of high quality peer reviewed research papers presented at the 8th International Conference on Innovations in Computer Science Engineering ICICSE 2020 held at Guru Nanak Institutions Hyderabad India on 28 29 August 2020 It covers the latest research in data science and analytics cloud computing machine learning data mining big data and analytics information security and privacy wireless and sensor networks and IoT applications artificial intelligence expert systems natural language processing image processing computer vision and artificial neural networks *Electronics* Owen Bishop,2010-12-30 Owen Bishop s First Course starts with the basics of electricity and component types introducing students to practical work almost straight away No prior knowledge of electronics is required The approach is student centred with self test features to check understanding including numerous activities suitable for practicals homework and other assignments Multiple choice questions are incorporated throughout the text in order 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 that includes exam style questions for which numerical answers are provided at the end of the book 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 Technology Engineering GCSE and Edexcel s BTEC First in Engineering resulting in a text that meets the needs of students on all Level 2 electronics units and courses 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 Electronics Owen Neville Bishop,Owen Bishop,2002 Designed to cater for a wide range of introductory courses this text starts with the basics of electricity and component types and introduces beginners to practical work The approach is student centred and assumes no prior knowledge of electronics *Mechatronics* Dan S. Neculescu,2002 1 Computer Integration of Electro Mechanical Systems Mixed Systems Integration Mechanical Structure Sensors and Actuators Computer Monitoring and Control 2 Sensor Modeling Sensors and Transducers Temperature Sensing Thermocouples Strain Stress and Force Measurement Using Strain Gauges Piezoelectric Strain Sensors and Accelerometers Analog Position Measurement Potentiometers Digital Position Measurement Optical Encoders Velocity Measurement Tachometers Problems 3 Actuators Modeling Direct Current Motors Stepper Motors Hydraulic Motors Piezoelectric Actuators Problems 4 Interfacing Computer Interface Requirements Operational Amplifiers Signal Conditioning Digital to Analog Conversion Analog to Digital Conversion Power Amplifiers and Actuator Drives Problems 5 Mixed Dynamic Systems Modeling and Simulation Overview of System Modeling Block Diagrams and State Space Modeling Object Oriented Modeling Signal and Power Transmission Virtual Prototyping and Hardware in

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