Assistant Professor, Dept. Of EEE, TCOER, Pune Maharashtra 23.45UG Scholar, EEE Dept TCOER, Pune Maharashtra

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 our 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 for 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-so nic sensors.

1. INTRODUCTION

Automatic Car-Washing is controlled using the electromechanical 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 mozzles 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 do ne 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 roll able 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 COLUM

2. MICROCONTROLLER

Atmegal6 is a controller that can power most of the machines very straightforwardly. The atmegal6 is just doing precisely what the human software engineer instructed them to do, atmegal 6can without much of a stretch run numerous machines. At the point when running a microcontro Ber 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 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 free pency of 1.6MHz

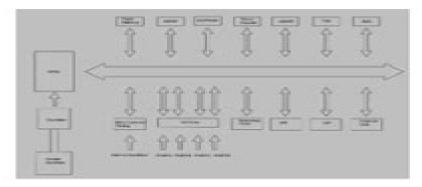


Figure -1: Atmega 16 Architecture

Automatic Car Washing System Using Microcontroller

Miguel Botto-Tobar, Joffre León-Acurio, Angela Díaz Cadena, Práxedes Montiel Díaz

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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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web go to the tab for virtual labs at genetic science learning center you will be doing the dna extraction and the gel electrophoresis complete this worksheet as you walk through the steps of the labs dna extraction 1 list three reasons for

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sample practice plan 1 5 hours flag pull 2 1 10 all same with a blocker flag pull 2 2 10 all same with blocker and another defender the wr will give the football to the db after the drill the db will hand the football to the db in the db s new line 6 points are awarded for each db the coach keeps score

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sample football drills and plays we appreciate all of our coaches in the league some are seasoned and some are new we have added a coach s corner nfl flag play 60 practice plan with sample plays blue cheetah empty red arrow empty shotgun green delay slot out n up slot right green post but is owned by and subject to the nfl

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mar 24 2020 1 routes at home or in a park flag football players can practice running different routes on their own simple routes such as 5 yard curls out routes and deep routes are good ones to practice a 5 yard curl route consists of the player running in a straight line and then turning around to catch the ball

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develop their technique and fine tune their offensive and defensive strategies that said we like to divide flag football drills into three buckets drills that teach fundamental skills like passing receiving and footwork

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this study investigated the criterion related validity of past performance and physical ability tests over time in a physically demanding context the national football league nfl results suggested that an indicator of past performance collegiate performance engendered a stronger relationship with future nfl performance than a variety of

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the flag football practice plan outlined above is used for the first practice after a game during all other practices i replace the film screening and weight training with a solid rotation of position drills and special teams

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breaking in the direction of sidelines after a catch and catching the ball at the highest possible point is important in flag football drills and plans flag football drills should also include strengthening the defense in situations like a hand off and flag football drills practice plans - Mar 02 2022

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in the first half of the book we have drills for passing catching footwork basic blocking and tackling or flag pulling positional skills and drills for both offense and defense we ll divide these drills into three categories basic football skills passing catching kicking and footwork

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be organized have a plan ready before football practice that includes warm up drills and a scrimmage have structure to your

flag football practice each activity should have a time limit and meaning stick to the basics of youth flag football don t over complicate your practices and flag football plays

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effective practicing have a plan showing up to practice with a plan or script for how things should be run is a way to take pressure off of you and your coaching staff and will provide your players with constant instruction and interaction the following different drills will address areas of the game of flag football o o x x

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