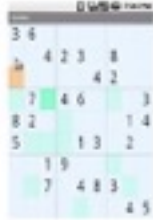


Portfolio

Some of the projects that I have worked on have been listed below:

1. Android Sudoku



I worked in a team of 3 people to create a sudoku game for the Android platform. This was a part of the final project at the HP Education Services, India where I did training for a period of 3 months in Android Application Development. I was the team leader, and distributed the duties among the members of the team. My job was to program the logic for the sudoku solver and to create the background image of the application in Photoshop. The language used was Java, and we worked on Eclipse Integrated Development Environment(IDE).

2. Programming a Mars Rover

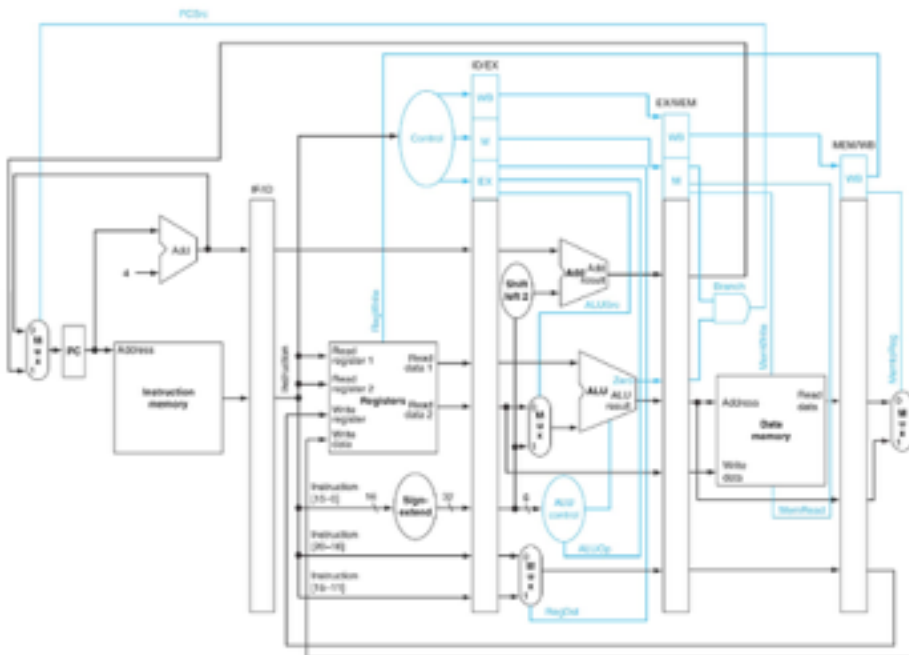


I worked in a team of 4 people to program an iRobot using embedded C programming language to make the device function as a Mars Rover. The objective of the project was to program the robot in such a manner that it would maneuver an

arena full of obstacles to reach the destination marked by four pillars. The arena had boundaries marked by color tapes, ditches identified by a missing tile on the floor, and various plastic pillars. We had to program the sensors to

detect the obstacles, and we used bluetooth to communicate with the robot from our computer. My contribution to the project was in programming the ground sensors to distinguish between the various colored tapes, and the normal floor.

3. Implementing a Microprocessor without Instruction Pipeline Stages (MIPS) instruction set for a CPU



I was a part of a two member team to work on implementing a MIPS instruction set and all the pipeline stages. We used VHDL programming language for the project. The simulation of the project demonstrates

how an instruction is treated by the Central Processing System when we give a command to it. VHDL is a very low level language designed to interact with the various hardware components of the CPU.

4. This Website



I started developing my current portfolio website as a means to test my programming skills in HTML, CSS, javascript, and jQuery. The website is currently in the beta version, planning on working more on it to add the responsiveness so that it looks alike on all the media devices, and all the browsers. I have used HTML for the basic

architecture, CSS to add the style to the website, and some features of jQuery to give some pages a dynamic look.