The PIC Microcontroller Engineer's Notebook 12 Experiments With The PIC12F683 Integrated Circuits Microchips Instrumentation Voltmeters Analog to Digital Conversion Thermometer LCD display LEDs Voltage Comparator Pulse generator Timing circuits Programmable timer M.S. Electronics

Ricardo Jimenez

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AUTHOR'S PREFACE: This Notebook is written in a precise and concise manner to allow the reader to build and test the experiments in a short period of time. This Volume I covers the small and powerful Microcontroller PIC12F683. In this Lab Experiments Notebook I am using a new approach of presenting my lectures directly from the white board. The purpose of this is making feel the reader as a student who is taking my class and needs to do his Lab Experiments the best way possible. All the Lab Experiment circuits presented here have been fully tested and operational. All the electronics schematics are handwritten photos that were taken directly from the White board. I will follow this style to give the reader a custom and personal touch to each lecture and lab experiment. It also includes photos from the Oscilloscope so you can verify your own signals in the Lab and troubleshoot your circuit. Most circuits have a photo of the real assembled circuit on a protoboard. This book is different from others in that all the schematics are handwritten, with all Analysis Equations and software code presented in detail, and in an easy to follow format. Readers without a Math background can skip the equations and follow the circuits. Engineering student will benefit from the Analysis which is often omitted from other similar books in the field. This notebook is divided into 12 LAB Experiments. It startswith a brief Introduction to the PIC12F752. The Lab Experiments are systematically designed from basic to more advanced designs. With just eight pins in this PIC Micro, it is easier for the students to assemble, test, and troubleshoot the Experiments. Only the last four experiments contain more chips which are required to verify that the programs are performing correctly. They use a numerical Liquid Crystal Display for low power consumption.

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