## TABLE OF CONTENTS FOR ACE KIT

- 1. Unpacking and Installation
- 2. Using the Integrated Development Environment (IDE)
- 3. Compiling and Running a Program
- 4. Handling Input
- 5. Program Structure
- 6. Debugging
- 7. Analog to Digital Conversion
- 8. Arrays and Analog Filtering
- 9. Stand Alone Programs and EEPROM
- 10. Using RS-232 Port
- 11. More RS-232 and Using Structures
- 12. Advanced Debugging
- 13. Timers
- 14. Interrupts
- 15. Using the Experimenter's Set
- 16. Clocking Data In and Out
- 17. Using an I<sup>2</sup>C Temperature Sensor
- 18. External EEPROM Using I<sup>2</sup>C
- 19. External Serial Ram
- 20. Driving a 7-Segment LED Display
- 21. Real-Timer Interfacing
- 22. A LCD and Keypad Integration
- 23. Interfacing touch devices
- 24. Digital Potentiometers
- 25. Expanded I/O Interfacing
- 26. Using the Signal Generator Board for Pulses
- 27. Migrating to Your Own Hardware