Automatic Washing Machine Controller

Project Shopping Checklist

Main Components

- ATmega32 Microcontroller 1
- 16MHz Crystal Oscillator 1
- 22pF Ceramic Capacitors 2
- 5V Voltage Regulator (7805 IC) 1
- LCD 16x2 Display (optional) 1
- Relay Modules (5V) 3
- NPN Transistors (2N2222 or BC547) 3
- Flyback Diodes (1N4007) 3
- Push Buttons 4
- LEDs 6
- Current Limiting Resistors (330 Ohm) 6
- Pull-up Resistors (10k Ohm) 4
- Water Level Sensor (Float Switch) 1
- Magnetic Door Switch (Reed Switch) 1
- Buzzer (optional) 1

Power and Wiring

- 5V DC Adapter (regulated) 1
- Breadboard 1-2
- Jumper Wires Pack
- PCB Board or Dot Matrix Board 1
- Screw Terminals Some

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- Connectors (Molex/JST) - Some

Tools

- Soldering Iron Kit
- Multimeter
- Programmer (USBasp)
- Heat Shrink Tubing or Electrical Tape
- Wire Strippers and Cutter
- Small Screwdrivers