Water Purification Control System

Team 6

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Water Purification Control System

• This System is mainly for the region where there is a lack of access to clean water.

• This design is a 3 stage water purification system.
  • Stage 1 is the clarity stage
  • Stage 2 is the ph stage
  • Stage 3 is the ion stage

• It will also have a display to show relative numbers for each of the three stages current levels.

• Display will also have light to show what stage is running.
Key Requirements

- Power: 10w
- Speed: 50Mhz
- Resolution: 10bits
- Accuracy: 90%
- Cost: $190
Water Purification and Monitoring System Advance Block Diagram

- Power Supply & Transformer (Zhuoyu)
- +5V DC
- Data Selector
- Sensor (Quinton)
  - Conductivity
  - Optical
  - PH
- Processor
  - Mem
  - Controller (Yuqiu)
  - ADC (Guanchu)
  - Analysis System (Frank)
  - Display Module
  - Purification Stage (Jinduo)
  - Port A
  - Port B
  - Port C
- AC: Sensor Data
  - ADC (Guanchu)
  - Comparator
  - User Interface Control
  - Control
  - Selecto