

The diagram illustrates the hardware setup for a Bluetooth Pulse Oximeter. It features an **ARDUINO\_NANO1** microcontroller board. The **SL1** pulse oximeter module is connected to the Arduino's **D0/RX** (pin 16) and **D1/TX** (pin 17) pins. The module also includes a **RESET** button and a **ICSP** header. The **US1** Bluetooth module is connected to the Arduino's **TX** (pin 17) and **RX** (pin 16) pins. The circuit is powered by a 5V supply, with a **RESET** button and a **ICSP** header. The pulse oximeter module (SL1) includes a sensor (SV1) and resistors (R1, R2). The sensor is connected to the Arduino's **ADC0/A0** (pin 4) and **ADC1/A1** (pin 5) pins. The resistors (R1, R2) are connected to the sensor's output pins (1, 2, 3, 4) and the Arduino's **5V** (pin 13) and **GND** (pin 14) pins. The Bluetooth module (US1) is connected to the Arduino's **TX** (pin 17) and **RX** (pin 16) pins. The module also includes a **RESET** button and a **ICSP** header. The circuit is powered by a 5V supply, with a **RESET** button and a **ICSP** header.

