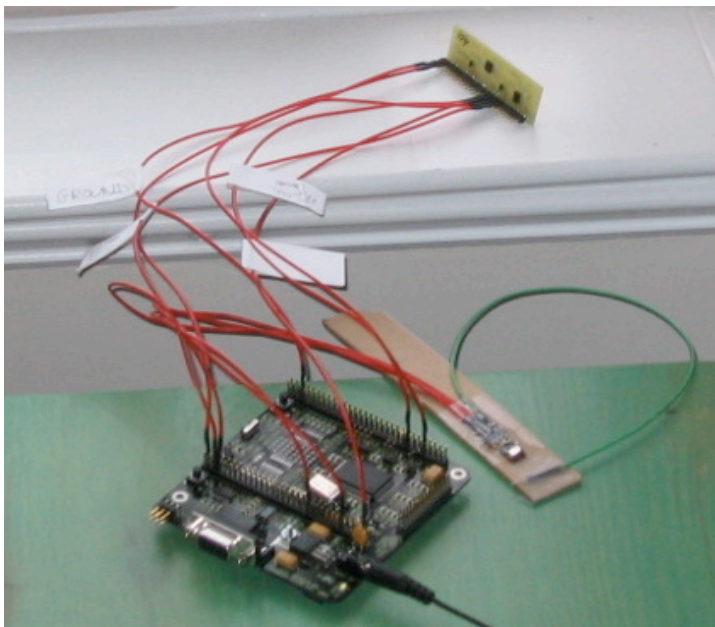
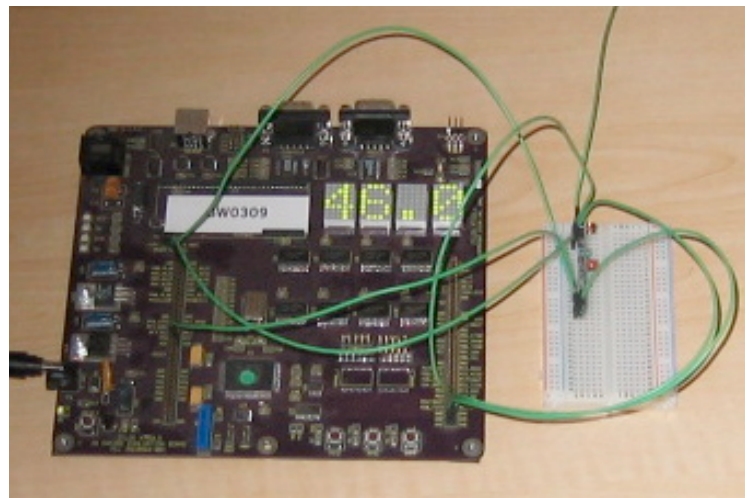


# Wireless Sensor Station

A CSCI 297 Project  
By Daniel Rubin  
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**The temperature sensor on the Z86423**



**The temperature display on the Z86401**

Featuring:

Radiotronix 433 MHz RF transmitter and receiver

Theoretical range of up to 100 meters

MAXIM PWM Temperature Sensor

Transmission Protocol Manually implemented, featuring:

Software Byte Transmission/Reception API

(hardware works on the bit level)

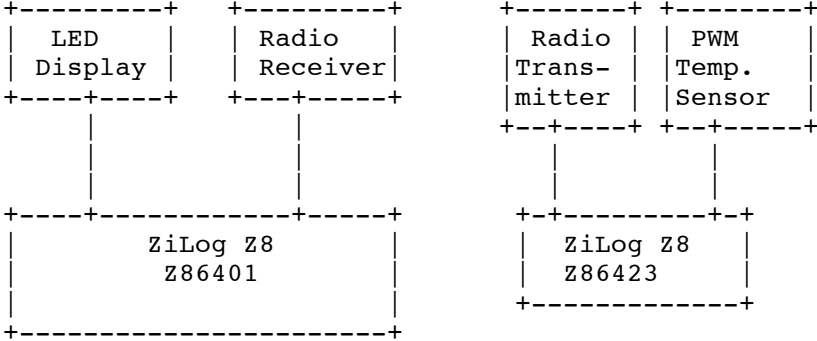
Start/Stop framing bits for proper timing

Parity Bits for error detection

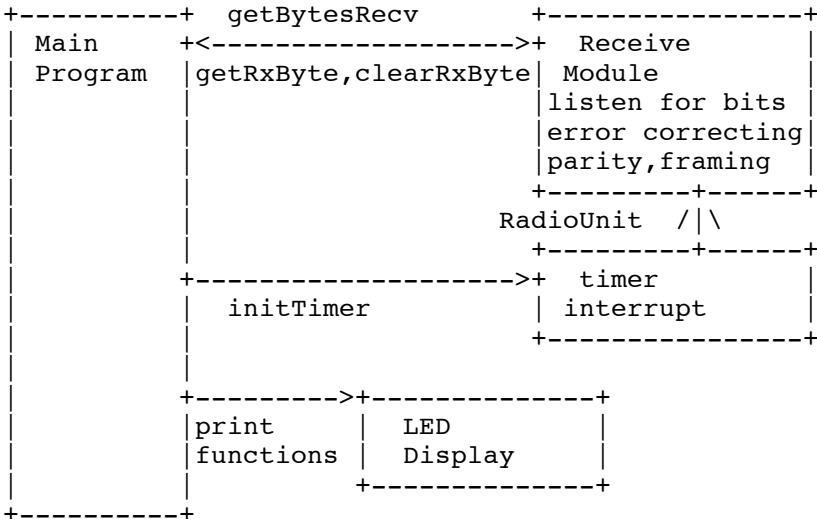
Data packet features start/stop bytes and an 8-bit checksum

# Block Diagrams

## Hardware Block Diagram



## Software Block Diagram Receiving Station



## Software Block Diagram Transmitting Station

