Private PC Morse Code Communicator

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ABSTRACT

The title of the project is private pc Morse code communicator. Basically the project can be divided into three parts, which is the transmitter, receiver and computer program. The user will have to key in the Morse code which consist "dot" and "dash" to the transmitter using two switches. Then the transmitter will produces two difference frequencies and send it to the receiver to convert the signals into binary code. The receiver is connected to the computer using serial port. Finally the Morse code signal will be converted into standard alphabets using computer program and displayed it in the computer interface.

As mention in the project title, the project is all about communication in engineering. The circuit can be divided into a transmitter and a receiver which will communicate using ultrasonic signal. The transmitter consists of an oscillating device and switches which will send signal to the receiver. While the receiver consists of an amplifier, decoder and an op-amp which are used in the communication field.

Besides, the project also required some programming in the computer. In the project I'll be using the Visual Basic 6 programming which will detects incoming signals from the serial port and convert it into normal alphabets.

The expected outcome for the project is string of alphabets displayed on the interface of the program in the computer according to the Morse code keyed by other user in the ultrasonic transmitter.