

# MORSE CODE INTERPRETER

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## ABSTRACT

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Morse code is created and is used to send telegram to further place in no time. With the creation of Morse code, it built the foundation for communication field as the code can transfer information fast. Morse code is also used in military to transmit secret information during war.

The aim for Morse code Interpreter project is to build an embedded system which able to convert input data to Morse code. This project consist of both hardware and software components which functions together to produce the final result. In this project, PIC16F877, 4x4 keypad, 16x2 LCD and buzzer are the main hardware components. The input data which can be alphabets or numbers are keyed in using a 4x4 keypad. 16x2 LCD is use to display the Morse code for the input data. The buzzer produced the Morse code in the form of sound. PIC16F877 microcontroller is implemented as the brain of the project itself.

In this report, the project is introduced with the background of Morse code followed by literature review that researches the previous work done and main components concerning the project. The methodology includes the technical explanations about the connections of components and explanation of the programming. The report continues with the results done and ended with conclusion.