

## ABSTRACT

The word Steganography from Greek words, Steganos meaning hidden and graphie meaning writing. So steganography is hidden writing or a hiding's technique of secret data to a medium, so that the hidden data is hard to recognize by human sensory perception. Many steganography made in digital medium such file picture, audio, video. In this final project, we implement steganography digital data on analog medium and analyze its performance. Analog medium is rarely used because its ability to generate noise (from cassette tape scrape), so that result of voice will always be different in each time cassette twiddling.

Method that used in this final project is by inserting 'beep' as a sign in audio file with chosen frequency and volume (so that it won't get mixed up with original sound) and spread them in time domain according to message that written with half-byte algorithm. The Result of this final project, with performance analysis that is objective point (Mean Absolute *Error* and Signal to Noise Ratio) and subjective point (*Mean Opinion Score* and Discrimination) have showed that audio's quality reach out steganography's boundary with handling of noise from recording process so that can get the same message.

**Key words** : Steganography, digital data, analog medium (audio cassettes).