**ABSTRACT** 

Application of digital signal processing is currently very broad and has penetrated

into various fields of human life. One area of application is the field modulation.

Modulation is a method of laying the information signal into a carrier signal having a

frequency higher, so this method is very important in the process of sending information.

One type is Amplitude Modulation Analog modulation. In analog signal processing, analog

input signal go to Signal Processing (ASP), given different treatment (eg filtering, gain,

etc..) And its output in the form of an analog signal. Analog modulation is designed at the

end of this project is Amplitude Modulation. Amplitude Modulation is the process of

laying the information signal on a carrier signal (carrier signal), AM modulator current is

usually in the form of a chip or microprocessor. Another way to make the modulator in a

form that can be programmed by using a DSP processor.

To implement it, at the end of the project is to design AM Transmitters on

TMS320C6713 DSK by using Simulink. Manually programming the DSP processor that

can be avoided by using a complicated Simulik. AM modulator system model is designed

to be made in Simulink, then simulated. After that, using the available libraries C6713DSK

in Simulink, a model system that has made the source code is automatically generated and

loaded into the C6713DSK through intermediaries Code Composer Studio software and

displayed using Visual Analyzer.

The results obtained at the end of the project can be analyzed and demonstrated that

the modulation index carrier signal must be greater than the information signal so that the

signal can be modulated by both. Inputs used in the final project is Mic for voice input with

frequency 0.3-3.4 kHz voice and line-in for MP3.

**Keywords: SIMULINK, Visual Analyzer, AM Transmitters**