

# **The Electromagnetic System of Piano Keys Developing Angklung Musical Instruments**

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## **ABSTRACT**

*The purpose of this research is to develop the design of angklung melody of piano keys system with the driving of electromagnetic hammers. The results of this study are expected to make it easier for players to play angklung. The method used in this study is a research and development method (Research and Development) which is a research method to produce products and test these products. The steps of the research are as follows: the potential and problems of the preparation of data-product design-validation of the design-revised design-trial product-revised product-trial product revisions. The results of this study were (1) the electromacetical piano angklung was able to ring two tubes in an electromagnetic circuit, the number of 46 tubes of angklung tubes was able to be sounded like a piano musical instrument with a g to f2 tone range, (2). Able to play a single melody, (3) Able to play tones simultaneously in two tones up to 10 tones, (4) able to function as accompaniment by playing only chords of harmony. The results of this study are in the process of being a journal article and the understanding of electromagnetic angklung design.*

Kata Kunci: *development, angklung, piano model, electromagnetic.*