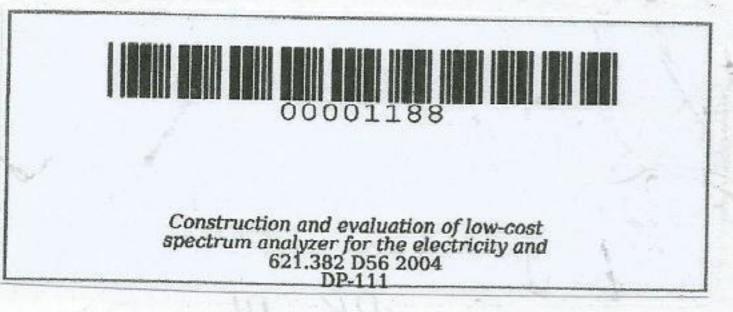
CONSTRUCTION AND EVALUATION OF LOW-COST SPECTRUM ANALYZER FOR THE ELECTRICITY AND ELECTRONICS LABORATORY OF CAVITE STATE UNIVERSITY

Undergraduate Design Project
Submitted to the Faculty of the
Department of Computer and Electronics Engineering
College of Engineering and Information Technology
Cavite State University
Indang, Cavite

In partial fulfillment
of the requirements for the degree of
Bachelor of Science in Electronics and Communications Engineering



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ABSTRACT

DIGMA, OLIVER C., MERCADO, MOURICE B., and MOJICA, JULIUS RUSSEL M. Construction and Evaluation of Low-Cost Spectrum Analyzer for the Electricity and Electronics Laboratory of Cavite State University. Undergraduate Design Project. Bachelor of Science in Electronics and Communications Engineering, Cavite State University, Indang, Cavite. March 2004. Adviser: Engr. Mary-Anne D. Costa.

The Spectrum Analyzer was constructed at the Electricity and Electronics Laboratory of Cavite State University, Indang, Cavite. The design project aimed to develop a low-cost spectrum analyzer that can provide more technical knowledge to the user of the spectrum analyzer through experimentation and research.

The project undergone a technical evaluation conducted by the project design adviser, Engr. Mary-Anne D. Costa and technical critic, Engr. Edwin R. Arboleda at the Electricity and Electronics Laboratory of this university. In the evaluation, two of the eleven modules of the spectrum analyzer remained not functional after four (4) series of reconstruction, redesign and retest. Consultation was also conducted to technical personalities to resolve this problem but none of it helped.

Based on the results of the study, the spectrum analyzer failed to perform its expected functions and purpose.

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