

**✓ 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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*Construction and evaluation of low-cost
spectrum analyzer for the electricity and
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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.

TABLE OF CONTENTS

Construction of the 110MHz Bandpass Filter	34
Construction of the Logarithmic Amplifier	35
Construction of the Voltage-Controlled Oscillator	36
Construction of the Local Oscillator	37
Construction of the First and Second Mixer	38
Construction of the Power Supplies	39
BIOGRAPHICAL DATA	iii
ACKNOWLEDGMENT	vi
LIST OF FIGURES	x
LIST OF TABLES	xii
LIST OF APPENDIX	xiii
ABSTRACT	xiv
INTRODUCTION	1
Importance of the Study	2
Objectives of the Study	2
Time and Place of the Study	3
Scope and Limitation of the Study	3
DEFINITION OF TECHNICAL TERMS	4
REVIEW OF RELATED LITERATURE	8
MATERIALS AND METHODS	27
Materials	27
Methods	30
Construction of the Time-Base Generator	30
Construction of the 70MHz Lowpass Filter	32
Construction of the 110MHz Bandpass Filter	33

Construction of the 10MHz Resolution Filter	34
Construction of the Logarithmic Amplifier	35
Construction of the Voltage-Controlled Oscillator	36
Construction of the Local Oscillator	37
Construction of the First and Second Mixer	38
Construction of the Power Supplies	39
RESULTS AND DISCUSSION	41
Presentation and Analysis of the Device	41
Time-Base Generator	44
70MHz Lowpass Filter	46
110MHz Bandpass Filter	47
10MHz Resolution Filter	49
Logarithmic Amplifier	50
First and Second Mixer Circuits	51
Voltage-Controlled Oscillator and Local Oscillator	52
Power Supplies	53
Testing and Evaluation	55
Cost Computation	62
SUMMARY, CONCLUSION AND RECOMMENDATION	67
Summary	67
Conclusion	68
Recommendation	69
APPENDIX	