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A Long Range VHF Communication System

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A Long Range VHF Communication

System

Final Report

Harry Synovetz Jr.
EET 491
21 Apr 89

ABSTRACT

This document describes the design and operation of my Senior Design Project, a Portable Long Range VHF Communication System. The problem that is addressed by this system is one of reliable communications on the 2 meter amateur radio spectrum, and the solution that the system offers are reviewed and explained. The system design, it's interrelated sub-components, the design criteria that determines functionality, and the validation of a successful design are presented in a logical, structured manner. The communication system has proven itself to be a relatively simple, low cost, and easy to operate solution for the often unwanted communication gap experienced by amateur radio operators.

TABLE OF CONTENTS

INTRODUCTION	1
FOREWORD	1
BACKGROUND	1
PROBLEM	3
SOLUTION	5
DESIGN CRITERIA	10
TECHNICAL DESCRIPTION	12
PHYSICAL	12
ELECTRICAL	16
VALIDATION	24
ELECTRICAL	27
ENVIRONMENTAL	31
BOM & COST	32
BIBLIOGRAPHY	35

APPENDIXES:

1. Schematic
2. System Diagram
3. MRF240 Data
4. DC Transient Test Diagram