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# The Personal Noise Reducer

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FINAL REPORT  
THE PERSONAL NOISE REDUCER

Submitted to

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April 24, 1994

## TABLE OF CONTENTS

<b>ABSTRACT OF THE PERSONAL NOISE REDUCER</b> . . . . .	ii
<b>1.0 INTRODUCTION</b> . . . . .	1
1.1 Problem Statement . . . . .	1
1.2 Proposed Solution . . . . .	1
<b>2.0 HARDWARE</b> . . . . .	3
2.1 Microphone Input . . . . .	3
2.2 Anti-Aliasing Filter . . . . .	4
2.3 Analog-to-Digital Converter . . . . .	5
2.4 Microprocessor Core . . . . .	5
2.5 Digital-to-Analog Converter . . . . .	6
2.6 Filter / Power Amp . . . . .	7
<b>3.0 SOFTWARE</b> . . . . .	8
3.1 Adaptive Filter . . . . .	8
3.2 Software Description . . . . .	9
3.2.1 Data Elements . . . . .	10
3.2.2 Software Flow . . . . .	10
3.3 Software Simulation . . . . .	11
3.4 Real World Results . . . . .	12
<b>4.0 CONCLUSION</b> . . . . .	13

## **ABSTRACT OF THE PERSONAL NOISE REDUCER**

This paper presents the final Phase 2 report of the Proposal For A Personal Audio Noise Reducer detailing the progress as it currently is. The Personal Noise Reducer's goal is to reduce audio noise in the user's personal area to a perceived acceptable level.

The hardware is completed. This effort has not included the packaging of the project, nor the power supply of the project.

The software design has focused toward using an Adaptive Filter method which continuously updates the characteristics of the digital filter used to reduce the noise. Computer simulations has shown positive results using the adaptive filter. In actuality, the software has not performed well.