

Indiana University – Purdue University Fort Wayne
Opus: Research & Creativity at IPFW

Manufacturing & Construction Engineering
Technology and Interior Design Senior Design
Projects

School of Engineering, Technology and Computer
Science Design Projects

1976

Bicycle Power Assist

Robert W. Wesner

Indiana University - Purdue University Fort Wayne

Follow this and additional works at: http://opus.ipfw.edu/etcs_seniorproj_mcetid

Opus Citation

Robert W. Wesner (1976). Bicycle Power Assist.
http://opus.ipfw.edu/etcs_seniorproj_mcetid/239

This Senior Design Project is brought to you for free and open access by the School of Engineering, Technology and Computer Science Design Projects at Opus: Research & Creativity at IPFW. It has been accepted for inclusion in Manufacturing & Construction Engineering Technology and Interior Design Senior Design Projects by an authorized administrator of Opus: Research & Creativity at IPFW. For more information, please contact admin@lib.ipfw.edu.

BICYCLE POWER ASSIST

PROPOSED TO:

Dr. Warren Worthley
Mechanical Technology
Purdue University
Fort Wayne, Indiana

SUBMITTED BY:

Robert W. Wesner
Senior Design
Spring Semester 1976

ABSTRACT:

To prototype and evaluate a mechanical Retro-Fit unit to permit a bicycle to either be pedaled or powered by an auxiliary source.

TABLE OF CONTENTS

<u>SUBJECT</u>	<u>PAGE</u>
1. Introduction	1
2. Design Background Information	2
3. Power Source Selection	7
4. Speed Reduction	8
5. Basic Design	12
6. Component Design	13
7. Assembly and Mounting	17
8. Test Program	19
9. Test Results	20
10. Conclusions	23
11. Bibliography	27
12. Related Material and Component Drawings	