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# Phase-Locked Loop Controlled Stroboscope

D Joe Conlan

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# **SENIOR DESIGN**

## **TECHNICAL REPORT**

for

PHASE-LOCKED LOOP CONTROLLED STROBOSCOPE

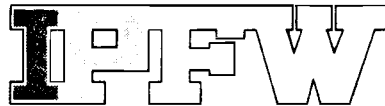
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title

in partial fulfillment of the requirements

for the degree of

### **BACHELOR OF SCIENCE**



presented to the

**ELECTRICAL ENGINEERING TECHNOLOGY FACULTY**

**INDIANA UNIVERSITY-PURDUE UNIVERSITY AT FORT WAYNE**

December 3, 1982

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date

by

D. JOE CONLAN

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GRADE: \_\_\_\_\_

APPROVED: \_\_\_\_\_

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### ABSTRACT

This document describes the phase-locked loop controlled stroboscope. The design submitted in the proposal was altered from a 0 to 1000 Hz stroboscope varying in 1 Hz steps to a 10 Hz to 5000 Hz stroboscope varying in 10 Hz steps. The accuracy of the PLLC Stroboscope was found to be equal to or greater than the accuracy of the measuring instruments within the operating range.