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FACULTY OF INDUSTRIAL TECHNOLOGY

DEPARTMENT OF TEXTILE TECHNOLOGY

FINAL YEAR PROJECT 2006

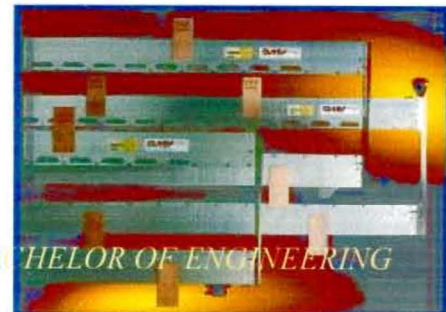
**PROJECT TITLE : *DESIGNING OF AN ELECTRONIC
SHAFT GUIDE***

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*SUBMITTED IN PARTIAL FULFILLMENT OF THE BACHELOR OF ENGINEERING
HONOURS DEGREE IN TEXTILE TECHNOLOGY*



PREFACE

Mechatronics have increased efficiency and effectiveness of the global industry. Textile industry has been left out. But this aspect of electronics seems to have skipped the textile industry in Zimbabwe, in terms of electronic designing and engineering. This project is about a monitoring system that seeks to protect both machinery and operatives from harm. After a time elapsed of weaving cycle, a shaft guide wear out and has to be replaced. The ***ELECTRONIC SHAFT GUARD*** seeks to avoid unwanted accidents by alarming and is capable of stopping the loom. This is a micro -controller-based monitoring system. It utilizes an estimate of shaft movements to wear by counting and sending vital signal to loom and loom attendants.