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# Automatic Folding and Stapling Machine

Jack Bevington

*Indiana University - Purdue University Fort Wayne*

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SPRING 1985

AUTOMATIC FOLDING AND STAPLING MACHINE  
BY  
JACK BEVINGTON

AUTOMATIC FOLDING AND STAPLING MACHINE

A SENIOR DESIGN PROJECT REPORT

PREPARED FOR

Donald J. McAleece

Professor Mechanical Engineering Technology

Indiana University-Purdue University

By

Jack Bevington

April 25, 1985

This report provides information about the Automatic Folding And Stapling Machine. This machine was designed to provide a means for a handicap, one arm person to fold and staple an envelope. A complete description of how the machine was designed, built and tested is included in the body of this report. The appendix contains a materials list along with calculations and drawings.

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## INFORMATIVE ABSTRACT

This report provides information about the Automatic Folding And Stapling Machine. This machine was successfully developed to help one arm handicapped individuals perform the service of packaging replacement parts in envelopes. This service includes stuffing, folding and stapling envelopes. Various companies contract this service to local handicap centers.

The Automatic Folding And Stapling Machine was fabricated from aluminum and acrylic plastic. It is comprised of a aluminum drum and turntable which is driven by a gear motor. The envelopes are clamped on the drum with spring pressure. They are then guided through slots which fold the envelopes. The envelopes finally are positioned under an electric stapler which is triggered by a limit switch. The criteria upon which this report was based are given in the criteria section. The automatic folding and stapling machine was designed, fabricated and tested at the designers home. A complete testing section is included in this report with all compiled data. The material cost of the prototype was \$194.33. The appendix of this report contains drawings, a computer program, a materials list and copies of quotes. A complete bibliography is also provided.