

PROTOTYPE DESIGN COLLECTION

SERIES 2



Prototype Design Collection

Series 2



AHMAD NAJMIE RUSLI

**UNIVERSITI TEKNOLOGI MARA CAWANGAN JOHOR
KAMPUS PASIR GUDANG**

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FOREWORD

This digital book on Prototype Design Collection Series 2 (PDC Series 2) is published as a reference design for mechanical engineering students. The designs presented experience a few phases of analysis before fabrication of prototype. Each project summarises the project description, prototype, figures, and design parameter. The design products vary in tools or equipment for household, workshop, entrepreneur, etc. Suggested material and detail of prototype dimension are also mentioned in this book.

It is hoped that this book will assist the students to have more ideas on innovation design products in the future.

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CHAPTER 146

Development of a Clothes Folding Machine

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PROJECT DESCRIPTION

This project is to help people to save money, save time, and for people who live in rural areas. Due to this, people who live in rural areas don't usually have stable electricity and cut their cost for laundry because it relates with electric and water bills. The objectives for this project are to design and analyze an efficient pedal powered washing machine and to fabricate the pedal powered washing machine similar to the design made. The methodology used is the Morphological Analysis to generate the final design, internet for research and journals as guidance. The final product shows how the machine functions as well as its detailed fabrication.

Keywords: *Pedal powered washing machine, Morphological analysis*

PROTOTYPE



DESIGN PARAMETER

