

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 123

Automatic Watering System for Plants Using Arduino

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PROJECT DESCRIPTION

Plants are known as the most important things for human being in so many aspects. Not only plants use to produce oxygen, plants also help for keeping the environment healthy by cleaning air naturally. So, it is a big responsible for us to keep the plants grow healthy by provide them a sufficient amount of water, sunlight and much more. But due to civilization, many people are so busy with their jobs and often to forget to water their plants causing the plants to suffer many disorders and ultimately died. Therefore, a system is required to handle this task automatically so we do not have to worry about watering our plants anymore. With the power of our modern technology such as Arduino, we can create an Automated Watering System for Plants that can keep the plants watered in a suitable amount of water.

Keywords: *Watering system, Automatic, Arduino*

PROTOTYPE



DESIGN PARAMETER

