

# ROBOT

## DESIGN HANDBOOK

 **KOBICON**  
MALAYSIA 2019

Edited by  
**Nik Nur Wahidah Nik Hashim**  
**Yasir Mohd Mustafah**  
**Amelia Wong Azman**  
**Hanan Mokhtar**  
**Hazlina Md. Yusof**  
**Zaid Omar**  
**Erina Ismail**



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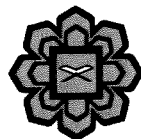
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## EDITOR'S NOTE

This book compiles technical design notes from the teams that have participated in ROBOCON Malaysia 2019. Every chapter details how the team design their robots to achieve the mission specified in ROBOCON Malaysia 2019 rules. Every report consists of three sub-topics: mechanical design, electronics circuit design and programming. The reports presented in this collection are written in English.

The purpose of this book is to share and pass on the valuable knowledge of engineering and robotics to other robotic enthusiasts especially in Malaysia. This book would be the first in the series to set the trend of knowledge sharing from the ROBOCON Malaysia.

We hope this book series would be a reference for future robotics competition and robotics enthusiasts with the aim of being able to develop more advance robotics system by learning from the experiences of others.

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