# TELEOPERATED ROBOT DEVELOPMENT USING ARDUINO

MUJAHID BIN MOHAMAD

SCHOOL OF OCEAN ENGINEERING
UNIVERSITI MALAYSIA TERENGGANU

2018

1100103796

11748

lp
LP 5 PPKK 2 2018

Lihat Sebelah

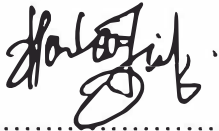TELEOPERATED ROBOT DEVELOPMENT USING ARDUINO

By
MUJAHID BIN MOHAMAD

Thesis submitted in partial fulfilment of the
requirement for the award of the degree of
Bachelor of Applied Science (Electronics and Instrumentation Physics)

SCHOOL OF OCEAN ENGINEERING
UNIVERSITI MALAYSIA TERENGGANU
2018

# THESIS CONFIRMATION AND APPROVAL

This is acknowledged and confirmed that thesis entitled: Teleoperated robot development using Arduino by Mujahid bin Mohamad Matric No.: S39205 have been checked and all the suggested corrections have been done. The thesis is submitted to School of Ocean Engineering, Universiti Malaysia Terengganu in partial fulfillment of the requirements for the award of the degree of Bachelor of Applied Science (Electronics and Instrumentation Physics).

Authorized by:

...................................

Main Supervisor

Date: 4/6/2018

Name:     DR. NOR HAZMIN BINTI SABRI
Pensyarah
Pusat Pengajian Sains Asas
Official Stamp:Universiti Malaysia Terengganu
21030 Kuala Terengganu
Terengganu, Malaysia

...................................

Co-Supervisor (If any)

Date: 4/6/2018

Name:  ROSLAH UMAR

Official Stamp:

...................................

Programme PITA Coordinator
Bachelor of Applied Science (Electronics
and Instrumentation Physics)

Date: 04/06/18

Name:
Prof.Madya Dr Mohammad bin Ismail
Official Stamp:     DR. MOHAMMAD BIN ISMAIL
Lecturer
School of Ocean Engineering
Universiti Malaysia Terengganu

# DECLARATION

I hereby declare that this thesis is the result of my own research except as cited in the references.

Signature     : .......................................

Name         : MUJAHID BIN MOHAMAD

Matric No.   : S39205

Date         : 4 JUN 2028

# ACKNOWLEDGEMENTS

# TELEOPERATED ROBOT DEVELOPMENT USING ARDUINO

## ABSTRACT

Teleoperation robot is a field where the robot is controlled in a distance to do works especially in helping people on their jobs. The development of robot especially on the teleoperation field is a tough process as it demands the knowledge on mechanical, electronic and programming. In order to construct the simple robot in teleoperation field for beginner, the development of a manual robot using Arduino is presented in this paper. The way of achieving this purpose are by developing the concept and mechanism, designing 3D model, installing circuitry elements, programming and testing. This work will give impact on the teleoperation field as it gives a simple way of understanding the basic system and control, speed up the learning process and easy on construction and lower in cost.