

**REAL-TIME PID LINE FOLLOWING ALGORITHM FOR ARROW-BOT**

**FINAL PROJECT**

Has been submitted in partial fulfillment of the requirements for the degree of Bachelor Engineering (*Sarjana Teknik*)



By:

**MIRZA ASROFI**

**NIM. 115060300111023**

**MINISTRY OF RESEARCH, TECHNOLOGY AND HIGHER EDUCATION**

**UNIVERSITAS BRAWIJAYA**

**FACULTY OF ENGINEERING**

**DEPARTMENT OF ELECTRICAL ENGINEERING**

**MALANG**

**2015**

APPROVAL SHEET

**REAL-TIME PID LINE FOLLOWING ALGORITHM FOR ARROW-BOT**

**FINAL PROJECT  
ELECTRICAL ENGINEERING DEPARTMENT**

Has been submitted in partial fulfillment of the requirements for the degree of Bachelor Engineering (*Sarjana Teknik*)



By:

**MIRZA ASROFI**

**NIM. 115060300111023**

Approved by :

Supervisor

Co – Supervisor

**M. Aziz Muslim, S.T., M.T., Ph.D**  
**NIP. 19741203 200012 1 001**

**Engr. Hj. Mochamad Fauzi B. Zakara**  
**Staff Number. 01026 (UTHM)**

**CONFIRMATION SHEET**

**REAL-TIME PID LINE FOLLOWING ALGORITHM FOR ARROW-BOT**

**FINAL PROJECT  
ELECTRICAL ENGINEERING DEPARTMENT**

By:

**MIRZA ASROFI**

**NIM. 115060300111023**

This final project report has been defended and rewarded for acceptance and approval  
for the degree of Bachelor Engineering on  
9 July 2015

**EXAMINER COMMITTEE**

**SIGNED**

**En. Mohd Hafiz A. Jalil**  
**Staff Number. 01188 (UTHM)**

**SIGNED**

**Dr. Chia Kim Seng**  
**Staff Number. 02615 (UTHM)**

**Ir. Purwanto, M.T.**  
**NIP.19540424 198601 1 001**

**Approved by,**  
**Head of Electrical Engineering Department**

**M. Aziz Muslim, S.T., M.T., Ph.D**  
**NIP. 19741203 200012 1 001**