

# APPROVAL SHEET

The Final Year Project Titled:

## **MULTI-OBJECTIVE OPTIMIZATION TO REDUCE ENERGY CONSUMPTION AND TO IMPROVE SURFACE QUALITY OF BOVINE HORNS IN MACHINING PROCESS**

Written by:

Mohammad Arafat

11201153544

It has been approved and passed at Presentation of Final Year Project of Bachelor  
of Industrial Engineering, School of Industrial Engineering.

Bandung, 14 January, 2019

Approved by,

Supervisor 1,



Rino Andias Anugraha, S.T., M.M.

Supervisor 2,



Teddy Sjafrizal, B.Eng., M.Sc