

MECHANICAL PROPERTIES OF DISSIMILAR ALUMINUM-BASED ALLOY
JOINTS BY MIG WELDING

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for the award of the degree of
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SUPERVISOR'S DECLARATION

We hereby declare that we have checked this project report and in our opinion this project is satisfactory in terms of scope and quality for the award of the degree of Bachelor of Mechanical Engineering with “Mechanical properties of Dissimilar Aluminum-Based Alloy Joints by MIG Welding”.

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I hereby declare that the work in this project is my own except for quotations and summaries which have been duly acknowledged. The project has not been accepted for any degree and is not concurrently submitted in candidature of any other degree.

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LIST OF ABBREVIATIONS

AA	Aluminum alloy sheet
T6	A type of heat treatment process
H32	A type of hardening process
ASTM	American Society for Testing and Materials
MIG	Metal inert gas
TIG	Tungsten inert gas
DOE	Design of experiment
UTS	Ultimate tensile strength
CTE	Coefficient thermal expansion
AC	Alternating current
DC	Direct current
SMAW	Shielded metal arc welding
DF	Degree of freedom
SM	Sum of squares
MS	Mean square
F	F-function
SS_R	Sum of square regression
SS_E	Sum of square error
SS_T	Sum of square total