



Salahaddin University – Erbil
College of Engineering
Mechanical & Mechatronics Engg. Dept.
Production Engineering Division

**THE INFLUENCE OF FRICTION STIR WELDING PARAMETERS ON
MECHANICAL PROPERTIES AND CORROSION RESISTANCE OF 2024
ALUMINUM-COPPER ALLOYS AND 2198 ALUMINUM-COPPER-LITHIUM
ALLOYS.**

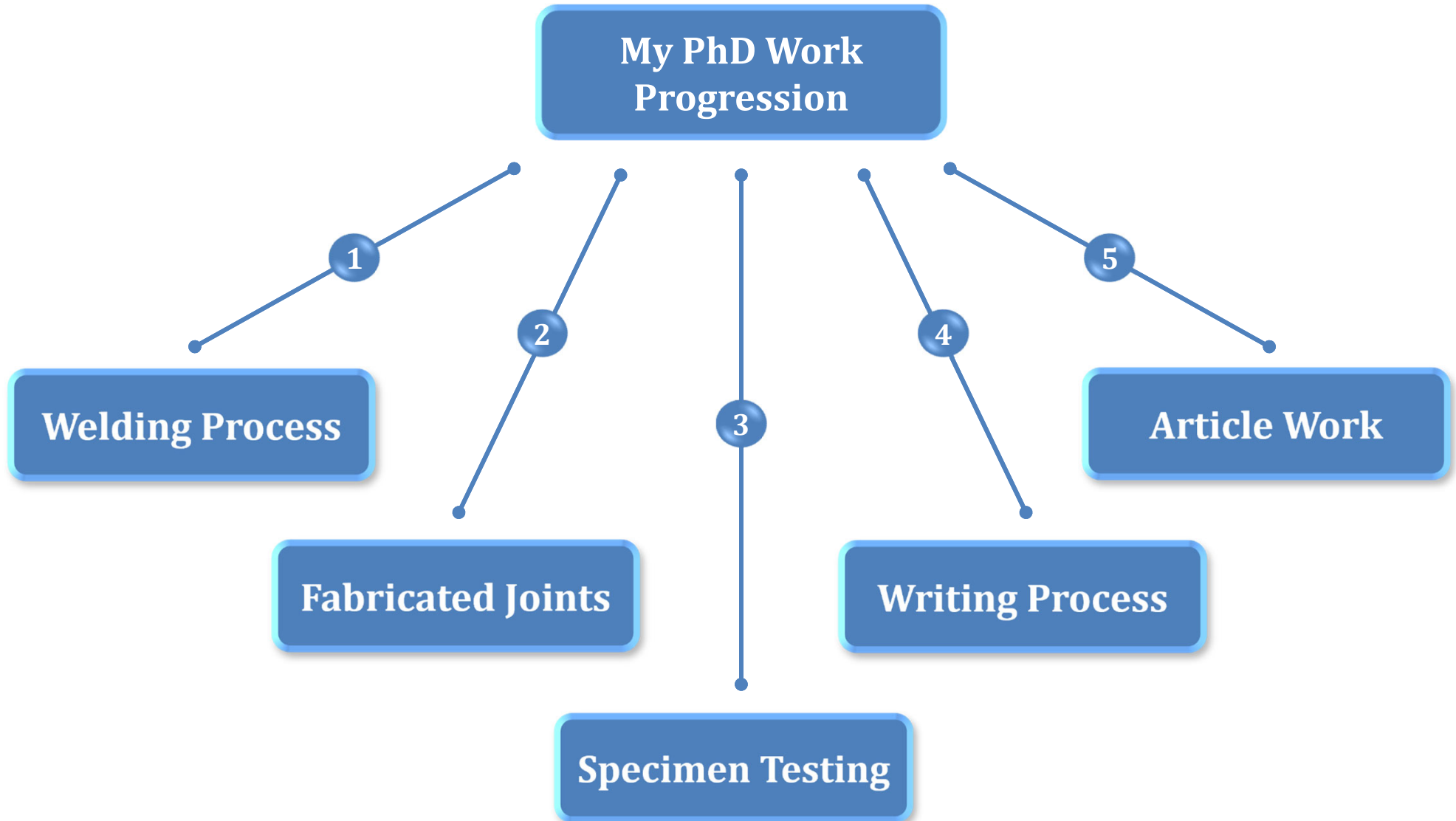
AHMED SAMIR ANWAR

Ph.D. Student - Production Engineering

Supervisor: Prof. Dr. Shawnim R. Jalal

Co-Supervisor: Asst. Prof. Dr. Mohammedtaher M. Saeed

PhD Progress



Fabricated Joints

Material Name	Spindle Speed	280 rpm					Fabricated Joints	Joint Type
	Travel Speed	36 mm	76 mm	102 mm	146 mm	216 mm		
AA2198 + AA2024	SS-FSW	3	3	3	3	3	15	Dissimilar Material
AA2198 + AA2024	DS-FSW	3	3	3	3	3	15	Dissimilar Material
Material Name	Spindle Speed	580 rpm					Fabricated Joints	Joint Type
	Travel Speed	36 mm	76 mm	102 mm	146 mm	216 mm		
AA2198 + AA2024	SS-FSW	3	3	3	3	3	15	Dissimilar Material
AA2198 + AA2024	DS-FSW	3	3	3	3	3	15	Dissimilar Material
Material Name	Spindle Speed	960 rpm					Fabricated Joints	Joint Type
	Travel Speed	36 mm	76 mm	102 mm	146 mm	216 mm		
AA2198 + AA2024	SS-FSW	3	3	3	3	3	15	Dissimilar Material
AA2198 + AA2024	DS-FSW	3	3	3	3	3	15	Dissimilar Material
Benchmark	Fabricated weld						5	

<i>TOTAL FABRICATED JOINTS VIA WELDING PROCESS</i>	
<i>Total pcs for fabricated joints</i>	95

Specimen Testing



3

4

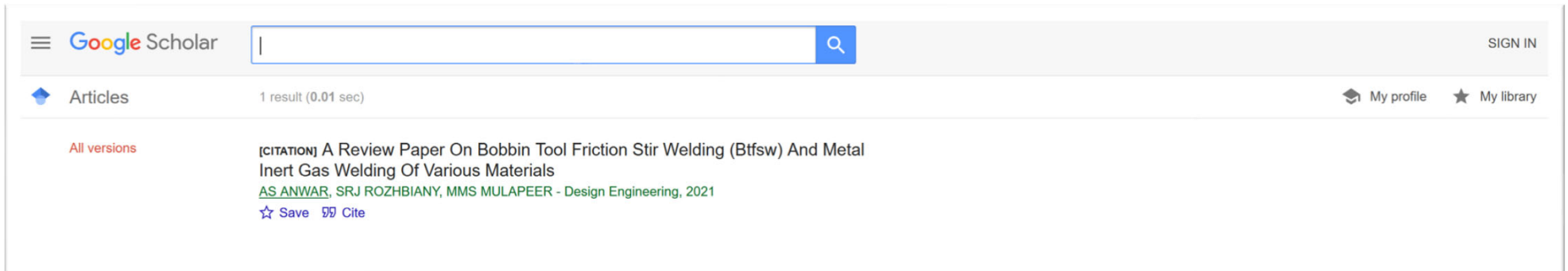
Writing Process

Two chapters has been submitted for review to the supervisor, the amending in the pending process

While, the third chapter in process of writing and almost finished to submit for review to the supervisor side!

Article Work

Google Scholar



The screenshot shows the Google Scholar interface. At the top left is the Google Scholar logo. A search bar is in the center with a magnifying glass icon. On the right, there is a 'SIGN IN' link. Below the search bar, it says 'Articles' and '1 result (0.01 sec)'. On the right side of this bar, there are links for 'My profile' and 'My library'. The search result is for a paper titled 'A Review Paper On Bobbin Tool Friction Stir Welding (BtfsW) And Metal Inert Gas Welding Of Various Materials' by AS ANWAR, SRJ ROZHBIANY, and MMS MULAPEER, published in 'Design Engineering' in 2021. There are 'Save' and 'Cite' options below the citation.



A REVIEW PAPER ON BOBBIN TOOL FRICTION STIR WELDING (BTFSW) AND METAL INERT GAS WELDING OF VARIOUS MATERIALS

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Gracias!