

Honors Research Project Proposal

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Title of Proposed Project: 4040C Universal Tester Backup	
Major: Mechanical Engineering	Graduation (semester/year): Spring 2021

Please include a brief (maximum 200 words) summary of your proposed project

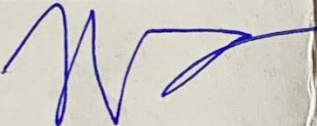
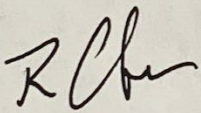
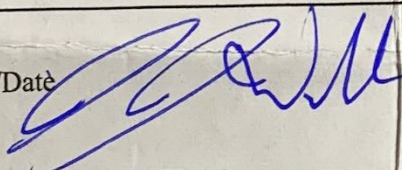
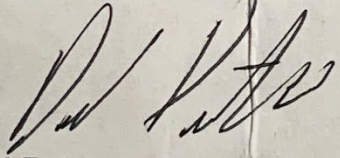
The 40 Series valve is one of Swagelok's highest volume part families of which 60,000 parts per year shipped are multi-ported. The multiport configuration requires a unique tester to ensure proper assembly and quality of upstream processes.

Due to the multiport configuration of these valves no alternate testing option exists, resulting in a high rate of customer disappointments per day should the equipment fail.

In addition to the tester's criticality, it has also been ranked as one of Swagelok's most unhealthy assets and is probable to experience extended downtime in the future.

This project proposes to design and build a manually actuated test station to maintain the flow of multi-ported 40 series parts in the event of tester downtime.

Approval:

Honors Course No.: 4600 497 - 001	No. of Project Credits: 4
Honors Project Sponsor Signature/Date  5/5/2021 Print name Josh Wohlgemuth	Email: Josh.Wohlgemuth@swagelok.com
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Your approved cover sheet and proposal must be [submitted to the Williams Honors College through IdeaExchange](#)