

Judge:	 	 	
Team:			

For teams from returning universities, we expect new and innovative designs from you. You will need to describe changes from previous year's vehicle at your Midway Review and during the Final Presentation.

MIDWAY REVIEW	Poor	Moderate	Good	Very Good	Excellent
Designs from previous years have been investigated, performance analyzed, and design objectives clearly state and reflect improvements over designs analyzed.	1	2	3	4	5
Vehicle design clearly supports the design objectives and is of obvious quality.*	1	2	3	4	5
Hydraulic and pneumatic circuit designs are complete and reflect an understanding of fluid power components and systems.*	1	2	3	4	5
Calculations and analyses have been performed on the presented design, and their results have been incorporated into the vehicle and/or circuit designs.*	1	2	3	4	5
Selection of hardware is complete and is appropriate to the design objectives.	1	2	3	4	5
Prototype vehicle assembly has begun.**	1	2	3	4	5
Presentation is completed on time and presented in a professional manner.	1	2	3	4	5

^{*}In addition to the above description, judges will be evaluating **returning teams** that are leveraging work products from previous years based on how they address these criteria in their Midway Review:

Vehicle Design – Returning team demonstrates original thought.

Hydraulic and Pneumatic circuit designs – Returning team made significant changes and includes a comparison of prior year schematics in the presentation.

Analyses – Returning team demonstrates an understanding of work completed and explains what changes were made to improve vehicle performance.

- **Criteria: Prototype vehicle assembly has begun
- 1= Significant progress has been made in sketches, schematics, and engineering design.
- 2= Vehicle frame assembly has begun
- 3= Vehicle frame has been assembled and ready for testing
- 4= Vehicle frame has been assembled, tested, and the pump, motor, accumulator, and mounting brackets have been made
- 5= Vehicle frame has been assembled and tested, and components are mounted





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FINAL PRESENTATION	Poor	Moderate	Good	Very Good	Excellent
Vehicle construction was completed on time	1	2	3	4	Е
and performed mostly by the team members.	1	2	3	4	3
Vehicle testing was performed, and					
improvements were made based on the	1	2	3	4	5
results.					
Final vehicle brought to competition appears	1	2	3	4	-
reliable, safe, and of quality craftsmanship.	1	2	3	4	5
Lessons learned are clearly stated and					
appropriate to the design/build experience	1	2	3	4	5
described.					
Presentation clearly demonstrates an					
understanding of how design choices	1	2	3	4	5
contribute to vehicle performance.					
Poturning toams must include prior year's hydraulis and p	naumatic sircuit	docian cohomotica	and show how the	aurrant vaar's sal	a a matia is

Returning teams must include prior year's hydraulic and pneumatic circuit design schematic and show how the current year's schematic is different.

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Team:		

VEHICLE DESIGN REVIEW	Poor	Moderate	Good	Very Good	Excellent
Quality of vehicle design is associated with	1	2	3	4	_
originality, uniqueness, and original thought.	1	2	ว	4	ر
Quality of vehicle design is associated with					
reliability. The vehicle is robust and durable,	1	2	3	4	5
but not too heavy.					
Quality of vehicle design is associated with					
operator safety and comfort. The vehicle is	1	2	3	4	5
ergonomic and easy to use.					
Quality of vehicle design is associated with					
innovative concepts compared to previous	1	2	2	4	г
entries and could be marketable as a	1	2	3	4	5
production vehicle.					
Quality of vehicle design is associated with	1	2	3	4	Г
marketability and production.	1		3	4	5

udge's Comments:	 	 	





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FPVC Mentorship	Summary Submitted (Y/N)	Points
Introduction and initial discussion about vehicle design.		1
Discussion about component design.		1
Discussion about assembly and testing		1
Final discussion on adjustments		1
·	Total Points	4

Comments:	 	 	

