

NAU Human Powered Vehicle Competition (HPVC) Year 2

Information from last year's NAU HPVC team:

The ASME HPVC 2020-2021 team designed and built a vehicle for the Human Powered Vehicle Competition (HPVC) according to the 2020-2021 guidelines given by the ASME Committee. The competition is based upon safety, innovation, speed, and endurance performance. Thus, the team focused on ergonomics, efficiency, safety, and innovation.



The final design utilizes two wheels of different sizes to accommodate the recumbent riding position. Since the design uses a recumbent seating position, the pedal crank sits above the front wheel and in front of the head tube. This is to ensure the clearance of the pedal's motion. Next, the final design uses a rollcage to ensure the rider's safety in case of a fall or crash. Other features of the design include a kickstand in order for the design to stand upright by itself. Lastly, the seat mount is designed to allow riders of different heights to drive the vehicle. The picture above is the final design.

Year 2:

This year's HPVC team will determine shortcomings of last year's design and develop a more robust, safe, and effective HPV to potentially compete in 2022.