

## Honors Research Project Proposal

Please Print

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<b>Title of Proposed Project:</b> Human Powered Vehicle Internal Systems Design	
<b>Major:</b> Mechanical Engineering	<b>Graduation (semester/year):</b> Spring 2020

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

The objective of this design project is to redesign the seat and steering system for the Human Powered Vehicle Team. The goal of the seat design is too improve ergonomics by making it more comfortable and adjustable. In making the seat adjustable, it will be easier for drivers to achieve an optimal efficiency when pedaling. The aim for steering will be to improve the ergonomics as well as performance by analyzing steering systems in the past and evaluating how each design was successful and for what reason. Another main goal of the steering system will be improving the stability and driver feedback. Because the vehicle is entirely human powered, ergonomics is somewhat of a dark horse in competition and could improve the success of the 2019-2020 Human Powered Vehicle Team.

**Approval:**

<b>Honors Course No.:</b> 4600 497	<b>No. of Project Credits:</b> 4
<b>Honors Project Sponsor</b> Signature/Date	9/30/19
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Your approved cover sheet and proposal must be submitted to the Williams Honors College through IdeaExchange