

Honors Research Project Proposal

Please Print

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Title of Proposed Project: 360 Degree Pendulum Ride	
Major: Mechanical Engineering Technology	Graduation (semester/year): Spring 2021

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

This project will be a theoretical redesign of the pendulum "Max Air" ride in Cedar Point. My goal with this project is to have the pendulum itself swing 360 degrees in the air. This includes a redesign of the support, the size of the ride, and the seated area. I want to analyze the forces needed for the swinging motion and the force bearing down on the supports. I also want to analyze human comfort levels related to falling speed and power levels that could be required to do this.

Approval:

Honors Course No.:	No. of Project Credits:
Honors Project Sponsor Signature/Date <i>Thomas F. Luskach</i> 11/20/2020 Print name THOMAS F. LUKACH Email: TLUKACH@UAKRON.edu	
Reader Signature/Date <i>Wesley Carpenter</i> 11/25/2020 Print name WESLEY CARPENTER Email: WACZ@UAKRON.edu	
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Honors Faculty Advisor Signature/Date <i>Scott A. Dilling</i> 11-24-2020 Print name Scott A. Dilling Email: sd53@uakron.edu	

Your approved cover sheet and proposal must be [submitted to the Williams Honors College through IdeaExchange](#)