

## Honors Research Project Proposal

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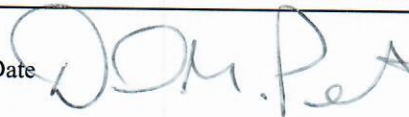
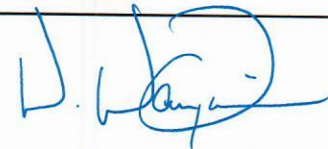
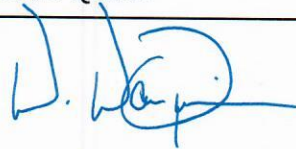
Name: Chidubem Igweagu	Student ID: 4568338
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Title of Proposed Project: Photogrammetry_Booth	
Major: Mechanical Engineering	Graduation (semester/year): Fall/2022

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

This is a research type project that involves design, build and simulation sponsored by a faculty member in the Mechanical Engineering department. The title of the proposed project is Photogrammetry\_Booth.

A photo booth to have pets immobilized by taking an attention needs to be designed and manufactured. 4-6 cameras need to be installed to take photos simultaneously to represent the front, sides, back and arbitrary sides of a pet. An Arduino board and tablet will be installed to control cameras and user interface. The booth is mainly built by T-slotted frames and many functional and decorative parts will be precisely designed and manufactured by 3D printers. Tolerance analysis needs to be accomplished for the assembly purposes and 3D printing. This booth will be used to take pet photos and pet figures will be created from these photos, which are out of scope of this project

**Approval:**

Honors Course No.: 4600 497-002	No. of Project Credits: 2 Credits
<b>Honors Project Sponsor</b> Signature/Date 	
Print name Jae-Won Choi    6/13/2022    Email: jchoi1@uakron.edu	
<b>Reader</b> Signature/Date  6-14-22	
Print name David Peters    Email: dmp64@uakron.edu	
<b>Reader</b> Signature/Date  14 JUN 2022	
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Your approved cover sheet and proposal must be [submitted to the Williams Honors College through IdeaExchange](#)