

Honors Research Project Proposal

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Title of Proposed Project: Artificial Reverse Shoulder Arthroplasty Joint Project	
Major: Biomedical Engineering	Graduation (semester/year): Spring 2020

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

This proposed project will be developing an artificial reverse shoulder arthroplasty joint that focuses on improvements to the Zimmer Biomet Comprehensive Reverse System by creating a unique feature, or features, to the humeral component that focuses on the prevention of dislocation by not limiting the range of motion of men from ages 45 to 65 years.

The development of this project will utilize the Food and Drug Administration (FDA) medical device design process. This project will involve a total of four Biomedical Engineering students from the University of Akron. Two students, Michael and Bailei, are in the Honors college while the other two are not.

Approval:

Honors Course No.: 4800:491/492	No. of Project Credits: 4
Honors Project Sponsor Signature/Date  10/10/2019 Print name Dr. Lawrence Noble Email: lnoble@uakron.edu	
Reader Signature/Date  10/14/19 Print name Dr. Rebecca Willits Email: willits@uakron.edu	
Reader Signature/Date  10/14/2019 Print name Dr. Ge Zhang Email: ge10@uakron.edu	
Honors Faculty Advisor Signature/Date  10/14/19 Print name Dr. Rebecca Willits Email: willits@uakron.edu	

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