

Honors Research Project Proposal



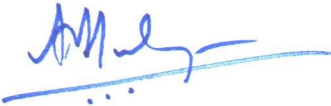

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Title of Proposed Project: Pandemic Healthcare: Face Shield Modification	
Major: Biomedical Engineering	Graduation (semester/year): Spring 2021

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

Current face shields used in home and institutional healthcare settings create hardships for their wearers, which makes normal work routines more difficult. Recent mandates require healthcare workers to wear both surgical masks as well as plastic face shields when tending to patients. Unfortunately, the majority of face shields have been designed for hospital settings, which does not address the specific requirements for in-home therapist use. Some of the issues include their restrictive size, tendency to fog, susceptibility to glare, and sterilization and re-use issues. Our team proposes to design a face shield for homecare occupational therapists that addresses their unique set of requirements. A prototype face shield will be developed and tested by several stakeholders to validate performance and refine the design. The design will be iterated as required to satisfy customer requirements.

Approval:

Honors Course No.: 4800:491:001	No. of Project Credits: 2
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Your approved cover sheet and proposal must be submitted to the Williams Honors College through IdeaExchange