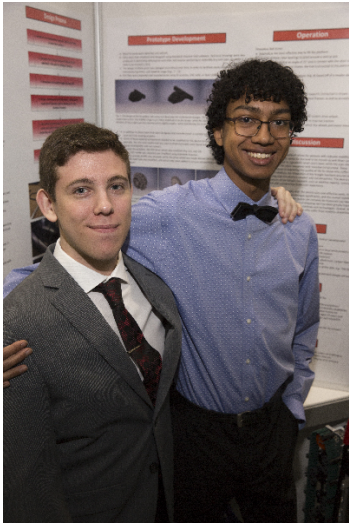


CWSF 2019 - Fredericton, New Brunswick



Nathan Sheogobind, Justin Beal

Voice-Activated Mechanical Shopping Assistant

Challenge: Innovation

Category: Senior

Region: Niagara

City: St Catharines, ON, St. Catharines, ON

School: Sir Winston Churchill

Abstract: A mechanical assistant was built in order to aid in improving quality of life and increasing independence. Modifications such as a rolling ring drive system, Google Assistant, and a stair-climbing assist system were included. This project combines the aspects of mechanical engineering with software engineering to provide a solution that allows people to live independently without compromise.

Biographies

Nathan - Nathan is a grade 12 student at Sir Winston Churchill Secondary School in St. Catharines, Ontario, where he has been a member in various clubs, such as the Tech Design Club and the SWC Ski Club. He has won awards at many different competitions, including a gold medal at the regional Mechanical CAD competition. Outside of school, Nathan enjoys playing guitar, is passionate about all things automotive, and holds the rank of second-degree black belt in taekwondo. Nathan and his partner were inspired to undertake this project after realizing that many products do not enable their users to have a high quality of life. They decided to use their int...

Justin - Justin is a grade 12 student at Sir Winston Churchill Secondary School in St. Catharines, Ontario. He has been in his schools tech design classes since grade 9 and has participated in multiple school clubs, ranging from ski club to tech design club. Outside of school he plays guitar and listens to music almost constantly. Justin and his partner were inspired to undertake this project after realizing that many products do not enable their users to have a high quality of life. They decided to use their interest in engineering to build a prototype that helps people live independently. Justin and his partner Nathan would like to continue developi...

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