



Triston Cooper

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ADVISOR/MENTOR: Dr. Gorlewicz
SPONSOR/GRANT: Light House for the Blind
PROGRAM START: Fall 2018

BIOGRAPHY

Triston was born in Lincoln, IL in 1995 and lived there until he graduated from Lincoln Community High School in 2014. After high school, he moved to Edwardsville, IL to start his bachelor's degree in Electrical engineering at Southern Illinois University Edwardsville while also working on a minor in mathematics and computer engineering. He developed a passion for engineering while working on a student project group at SIUE called the SIUE Solar Racing Team where he filled various positions, including project director, during his four years of undergraduate education. After he participated in a national event called the American Solar Car challenge during the summer of 2018, Triston came to Saint Louis University with an offer to continue his education and work in the Chrome lab at SLU which he happily accepted. He is currently working towards his master's in engineering here at SLU, while researching for the Light House for the Blind.

RESEARCH

Triston is currently researching in the area of haptic and human machine interfaces. He is working on a system that allows blind athletes to be able to participate in ice hockey more effectively. Specifically, he is working on a way to make a hockey puck noisy enough to allow those with visual impairments to be able to locate the puck in a way that does not inhibit their athletic abilities. This puck will house electronics that will allow the hockey puck to constantly emit white noise to see if players can respond quickly and accurately so that they can play blind hockey to the best of their ability. He is also looking into other ideas such as a haptic feedback system to allow athletes the ability to find the hockey puck without completely relying on their hearing to do so.



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