

# Registration Form

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## TEAM INFORMATION

Team Name/Project Title: HAP-ABS

Department: Electrical Engineering

Faculty Advisor(s): Dr. Chao Liu, Dr. Tim Lei, Dr. Mike Radenkovic

Team Members: Steven Jahnke, Jon Broyla, Jake Christenson, Cory Van Duyne, Joe McCarthy

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## PROJECT INFORMATION

### Description:

We designed a safety system for bicycles consisting of Haptic feedback on the handle bars and a front ABS system.

### Abstract:

The Haptic feedback handlebars will utilize Lidar sensors and warn a bicyclist, through increased vibration based on distance, of an approaching vehicle or object from behind the bicycle.

The ABS system will utilize a gyroscope to initialize the ABS system based on the angle of the bicycle as a flip is initiated by slamming on the front break.

