

**ECE Capstone program  
Spring 2017  
Summary Project info**

Please provide the following information to be shared with on capstone information exchange platform:

**1. Project number:** Group 24

**2. Project title (as will appear on the poster):** Knight Rider; A Short Throw Navigation System

**3. Team members:**

Andrew Yi

Bony Patel

Michael Mullin

Nishant Gupta

**4. Adviser(s) name(s):**

Professor Hana Godrich

**5. Up to 10 keywords that will help to classify the project:**

Projection, Safety, Android, App, Raspberry Pi, Navigation, Cycling

**6. Project abstract (up to 200 words) to be shared with judges:**

The goal of the project is to develop a short throw projector that will provide users an enjoyable experience as well as increase their safety when operating bicycles. The project aims to project relevant information in front of the bicycle operator. The relevant information will include; directions, speed, acceleration and potential hazards. Also by projecting in front of the rider, this will illuminate the ground and expose any uneven surfaces that could be a hazard to the rider