Computer Vision Project Proposal

Student Details

Name: Cade Mack

Student ID: 801045873

910-381-8578

cmack17@uncc.edu

Team: Visionaries

Members: Cade Mack, Aryani Patel, Amanda Cheng, Hari Chamlagai

Topic: Hockey Puck Highlighter

Proposal: We would like to write software that is able to take footage of hockey games and use computer vision techniques to identify the puck on the ice and implement some sort of image manipulation to make the puck easier to see. We think this would drastically help new people start watching the sport and increasing the general audience. We could make it so there could be a slight glow around the puck, or the software could make the puck itself quite bright and visible.

Goals:

1. Identify the location of the puck in the image
2. Apply some change to the image to make the puck more noticeable
3. Have this software be fast enough to take place in a live broadcasting
4. Allow new fans of hockey to keep up with the game