**CS460: Capstone Experience Project Definition 2021 McVey** 

## **Recognizing Text in Images**

**Project Developer:** Eric Herman

If you drive through a toll booth or leave a gas station without paying, a camera takes a picture of your license plate and you receive a ticket. Search engines require someone to enter key words associated with images to "find" them, but shouldn't we be able to programmatically "label" an image by text it contains (like a license plate)?

**Project Description:** Write an optical character recognition application that identifies and recognizes printed text within an image

## **General Description and Requirements:**

- 1. Investigate existing algorithms and libraries.
- 2. Initially, try black text on a white background.
- 3. Design a uniform API so that you can plug in alternative OCR functions.
- 4. Evaluate the effectiveness of your OCR compared to existing algorithms.
- 5. Develop an application that employs augmented reality for text within an image (e.g geo-tag state park signs, license plates, campus building signs, ..)