Vision Statement

**Team Name**
No Cap Stone

**Project Title**
Best Face Forward

**Team Members**
Adjon Tahiraj atahiraj@ucsb.edu
Andrew Doan andrewdoan@ucsb.edu (Lead)
Bik Nandy bnandy@ucsb.edu (Scribe)
Ryan Gormley rgormley@ucsb.edu
Tim Chang tinghaur@ucsb.edu

**Project Overview**
Online interviews are impersonal when talking to a screen, disengaging, hard to connect, and difficult to read physical cues. Because of these difficulties, interviewers cannot gauge the candidate’s fit for the company as effectively as they could during in-person interviews. In today’s interview video chat, often it is a 2-way (or multiple) video conference call with mute and toggle video capabilities. The conference call is not ideal as many times, it looks as if the individuals in the call are not making direct eye contact, audio may be missed, and a person may not be in a professional setting (i.e. their home). The major problem is that it is an impersonal communication and both the interviewer and interviewee may miss any body-language and other visual cues. The goal of this project is to create a personalized interviewing platform to better simulate a real, in-person interview by creating a web application with features including:

- Eye Gaze Correction
- Background Blur
- Filters (professional)
- Engagement and Sentiment Analysis of Audio (voice) and Video
- Access to details such as resume, notes, linkedin profile, github, coding/text area
- Speech to Text logging

By getting more out of online interviews, companies will have to interview fewer candidates because they will get a better feel for the soft skills of each candidate during the online process. This will save employers substantial time and labor, as well as helping them select candidates that are a better fit.
**Milestones**

The MVP for this project will be a web application that will analyze footage of an interview and give feedback about the interviewee.

**Goals:**
- Host 2 person video interviews with useful widgets for the interviewer
  - Checkboxes, timers, notes, agenda, etc.
- Speech recognition to produce a transcript of the interview
  - Analysis of sentiment during responses

**Stretch Goals:**
- Eye gaze correction
- Face Sentiment Analysis from live video stream
- Multi-person interviews

**Strategy & Technologies**

To stay on track we will follow this plan:
- Daily scrums (5-day) and weekly meetings with mentors
- Two week sprints ending with integration
- Github version control with branch separation per component
- Trello to track progress
- Facebook Messenger group as primary communication
- Division of team for front-end, backend
- QA check by two members for every pull request

We plan to use the following technologies:
- Node.js and React for our web-application
- AWS for our database and to host our application
- Tensorflow as our primary machine learning library