

# DROWSINESS DETECTOR





**Team:** //To Do: Team Name

**Company:** Aerospace

**Team Members:**

Danielle Robinson .....Lead

Victoria Sneddon .....Scribe

Andrew Polk .....Dev

David Sun .....Dev

Brandon Tran .....Dev

# Purpose

- Monitoring satellite launches requires full attention
- Requires a trained alert team of professionals
- High stakes scenarios
- People get tired



# Overview and Approach

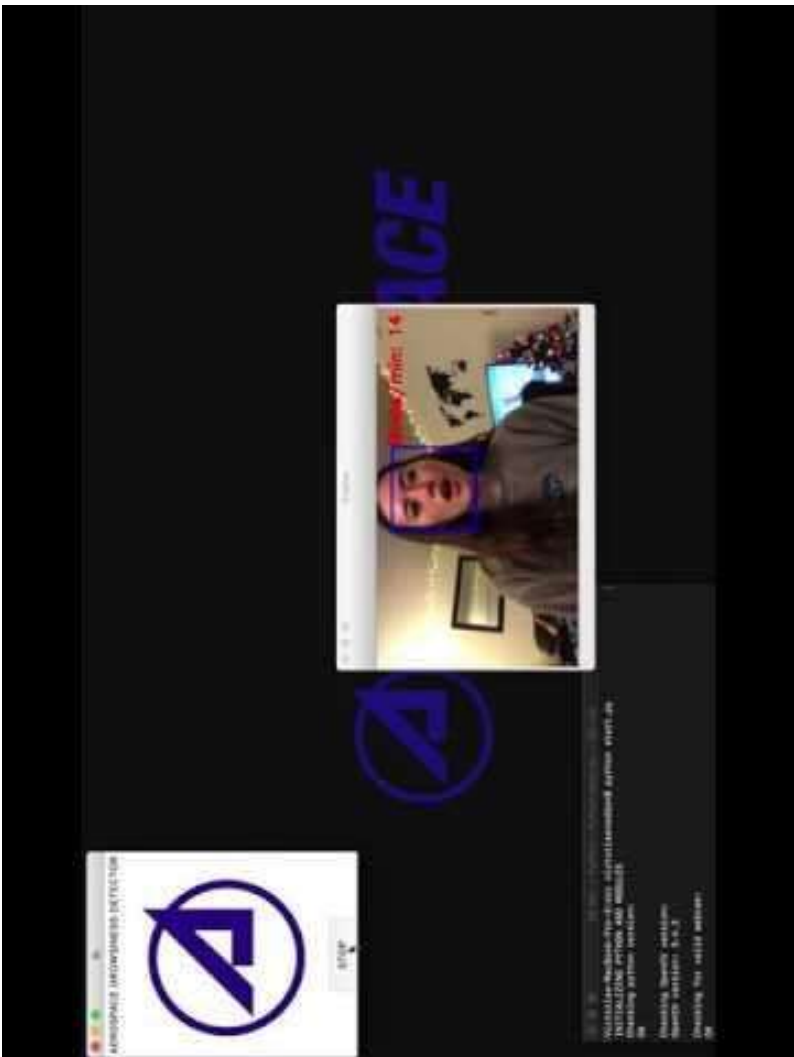


- User runs program
- Program recognizes face
- Detect if drowsy based on varying factors: yawn, blink, eyes closed
- Alert user if they are showing signs of drowsiness



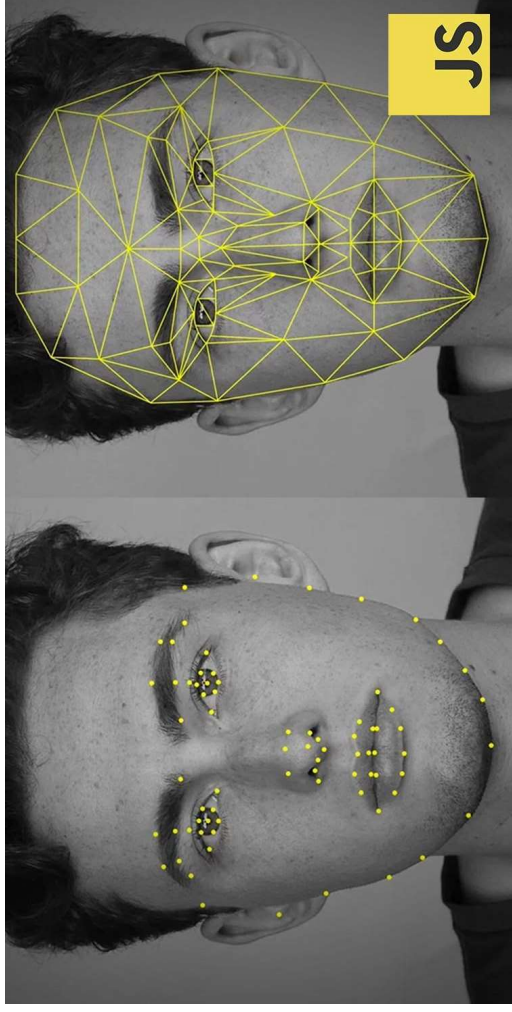


# Demo



# Technical Details

- OpenCV facial detection
- Feature analysis
- Time series analysis
- Drowsiness threshold triggers



# Next Steps

- User accounts
- Calibration for each user
- Better accuracy with drowsiness detection
- Statistics for each user
- Website to view stats



**thank you,  
next.**

