

# COGS 189 Final Project

**Team Member:**

**Name:** Alan Kuo

**PID:** A12994404

**Name:** Wanying (Zoe) He

**PID:** A13617776

**NeuroSky Features:**

- Attention Level
  - Increases when a user focuses on a single thought or an external object, and decreases when distracted
  - Value Range: 0 - 100
- Meditation Level
  - Increases when users relax the mind and decreases when they are uneasy or stressed
  - Value Range: 0 - 100
- Blink Detection
  - A higher number indicates a “stronger” blink, vice versa

**Description:**

A distractive working environment and an overly-exhausted mind can greatly undermine our productivity, but we are often unaware of these factors during work. In our final project, we want to create a system that designs an optimal environment and plan for people by recognizing their mental states during work. We plan to use NeuroSky to record the EEG signals from users while they are working and adjust the study environment based on their attention level, meditation level, and blink detection.

Here are some of the functions and implementations we want to consider:

- Turn off the facebook and email notifications when the user is highly focused on work.
- Provide incentives when users are constantly concentrated (i.e. planting plants or awarding points for leaderboard)
- Pop up window to the user to take a break when the attention level is low and the meditation level is low