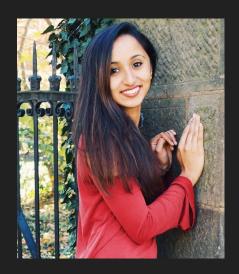# Quit Smoking

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Project Description

- Create an application that sends a notification when it detects a user is smoking
- We'll use the MYO armband for gesture recognition
- The application will also use smart watches to detect if a user is smoking through various parameters
  - Heart rate
  - Location
  - Accelerometer
  - Oximeter
- Application will show a risk that comes along with smoking
- Send an SMS to loved ones to help the user quit smoking

This Week's Objectives

- Created a Wall of Shame
- Developed location function
- Configured Moto 360 with cellphone, began working with heart rate detection in android wear
- Started conducting trials on a subject to get heart rate, pulse, oxygen level, and blood pressure measurements while smoking (Trial 1 complete)
- Created MYO gesture recognition on android phone

TRIAL 1

O2 - very minimal increase

Pulse - no change, but was a bit over the normal range (60-100) when we started the trial

Systolic blood pressure - 5 mmhg decrease

Diastolic blood pressure - 9 mmhg decrease

Overall, we saw little to no change in oxygen levels and heart rate, but a significant decrease in systolic and diastolic blood pressures.

Next Week's Objective

- Work with android wear
- Figure out how to use raw accelerometer data to detect smoking
- Carry out and gather statistics from more trials
- Find a way to use the MYO smoking detection as a trigger to turn on the heart rate detection (because the heart rate data is currently gathered manually)
- Keep working with the Moto 360
  - Compare accuracy with pulse oximeter in future trials
  - Figure out how to send data from the watch to the phone as quickly as possible