Motivation

- Happy Visitor = $$$

- Common pain-point = finding unsatisfied customers

- Staff unwilling, expensive, unreliable to perform such service

Solution

- Autonomous Emotion Detection Robot
  - Mount a realsense on an Ollobot
  - Perform emotion recognition on visitors
  - Autonomously explore, report, engage

Steps

- Develop bluetooth communication between rPi3 and Android phone
- Develop openCV to detect negative emotions on faces
- Develop engagement and reporting algorithm based on emotion data from Realsense
- Develop exploration algorithm to find visitors (and not crash)

Team Members

- Minghan Wei

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