

# PROJECT INVENT

## TEAM: SO Inventz

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# OUR THREE IDEAS



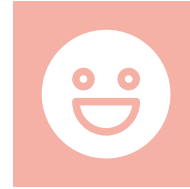
## TOUCH ID ATTENDANCE

Using a fingerprint sensor  
to take attendance.



## ATTENDANCE WEBSITE

Create a website for  
attendance.



## FACIAL RECOGNITION ATTENDANCE

Attendance devices  
utilizing facial  
recognition

# **OUR TOP IDEA**

## **WHAT IT IS**

**A service that automatically recognizes faces in order to quickly and efficiently take attendance.**

## **HOW IT MIGHT WORK**

**A raspberry pi will communicate to a camera to recognize faces, along with a touch screen.**

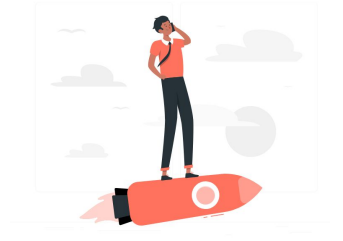
**INTRODUCING OUR**  
**COMMUNITY PARTNER...**

**JOSEPH**  
**GOTTLIEB**



# JOSEPH GOTTLIEB

- Wireless communications expert
- Works for Goosetown Communications and Goosetown Networking Services
- Does radio work for the north east of America
- Volunteers for many organizations such as Police Athletic League



# JOSEPH GOTTLIEB

- Wireless communications expert
- Provides communication solutions to federal state and local government entities
- Has worked for nuclear power plants
- Companies working for:
  - Goosetown communications
  - TeamConnect LLC
  - Goosetown network services
- Does radio work for the north east of America
- Goosetown Network Services manages and owns radio towers
- Goosetown Communications helps works with public safety and large enterprise wireless communication
- TeamConnect LLC is a push to talk over cellular company for developers in California



“This project will help organizations track their volunteers hours so that the volunteers receive proper credit and the organizations can accurately report volunteer hours to their constituents.”

**—Joe Gottlieb**

# OUR PLAN

Create easy to produce attendance devices

Use a touch screen for a simple user interface

Use a raspberry pi to code the camera to recognize faces

Create a CAD case for the camera





# WHY ARE WE DOING THIS?

- Fire departments, ambulance cores, and food pantries, are all examples of companies that would need volunteer hours to be tracked, and this project would create an easy and secure way to do so.
- In many cases, tracking hours of training is necessary. People doing hours for school credit (ex. volunteer hours for honor societies) and this would create an easy way to track this.
- This heavily reduces the workload for other volunteers to track the hours, which could be done automated instead.

# ABOUT THE PROJECT

- Fire departments, ambulance cores, senior citizen complexes, police athletic league, food pantries are all examples of companies that would need volunteer hours to be tracked, and this project would create an easy and secure way to do it.

Why do they need to track their volunteer hours?

In many cases, they need to track their training, some people are doing hours for school credit (volunteer hours for honor societies) and this would create an easy way to track this.

Reduces the workload for other volunteers to track the hours, it could be done automated instead.

Easier organization

PAL (police athletic league) tracking the hours, we can test it at PAL year

Runs a lot of volunteer organizations, we would have kids show up and help out with coaching, basketball and stuff, and at the end of the week or month we can easily show how many hours each person was there for and make sure that nobody is lying.



# THIS IS NOW

Attendance is taken in all different ways depending on the event. However, this is done by human input and can be unreliable and inaccurate.

# IN THE FUTURE

Attendance will be  
taken without a login,  
and all the members  
would have to do is walk  
up to the device.



“The addition of facial recognition adds a layer of security that is beyond what other tracking programs currently do... It will be an inexpensive hardware platform!”

**—Joe Gottlieb**

# OUR QUESTIONS

- How do we implement our project into the community, and where do we start?
- What is the best way to make this product accessible and affordable?
- How do we mass produce our product?

# THANK YOU!

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