DRONES FOR HUMANITY

Team Members' Positions

Name	Email	Position
Michael Mascari	mmascari2017@my.fit.edu	Programmer (Computer Vision/AI)
Ballard Barker	bbarker2017@my.fit.edu	Project Manager/ Structures
Matthew Backert	mbackert2017@my.fit.edu	Systems Engineer
Nicholas Davis	davisn2017@my.fit.edu	Avionics/ Propulsion/ Aerodynamics
Brendan Sanders	bsanders2017@my.fit.edu	Production/ Structures
CJ Gagni	cgagni2019@my.fit.edu	Avionics
Justin Williams	justin2017@my.fit.edu	Propulsion
Hamdan Alblooshi	halblooshi2016@my.fit.edu	Propulsion

Faculty Advisor and Client

- The CS faculty advisor for this project is Dr. Debasis Mitra
- The client for this project is the project team
- Client meetings on Thursdays at 4PM

Milestone 5

Connect All Physical Components

Data stream from camera to Pi

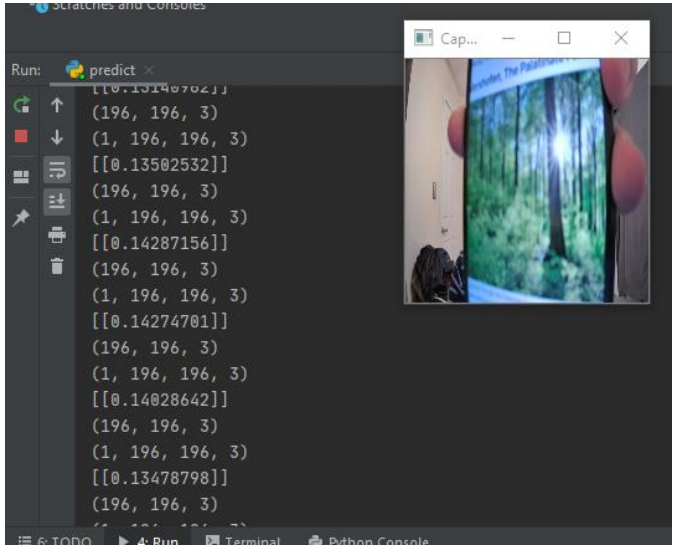
GPS Chip Signaling

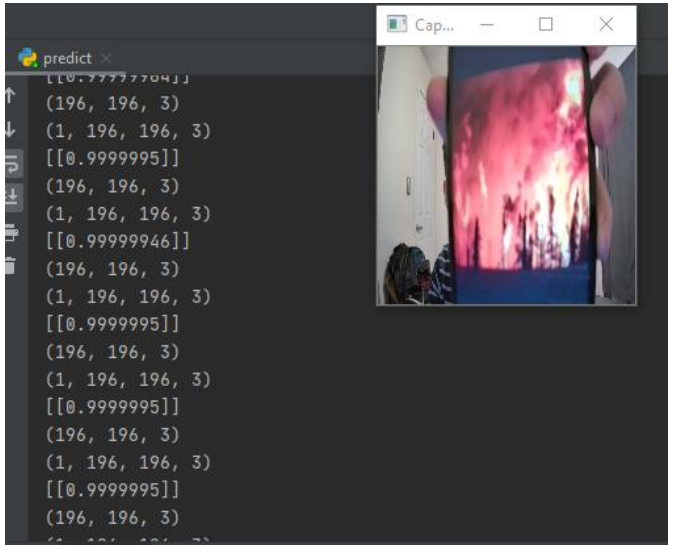
Task 1 – Connect All Physical Components

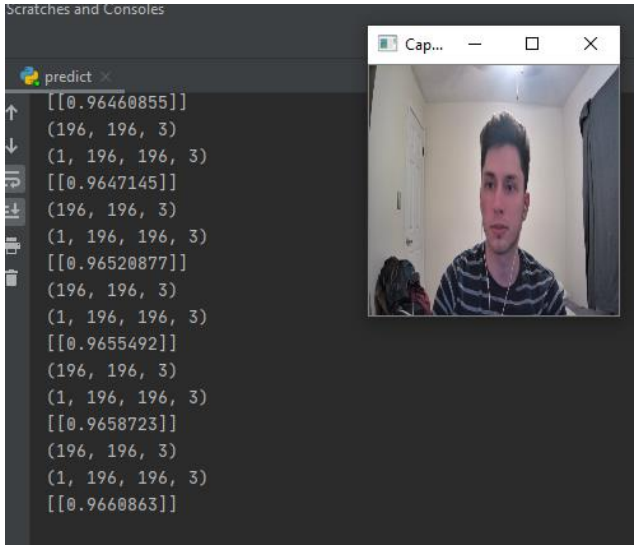
- Set up NOOBS OS on Raspberry Pi
- Installed Python Environment on the Pi
- Found a way to save neural networks to files so Pi would not need to train them. Saving space and processing time on the pi.

Task 2 – Data Stream from camera to Pi

- GoPro did not perform like my project manager said. Could not connect it like a webcam to software.
- Used a different webcam, works fine.
- Neural Network works great!







Task 3 – GPS Chip Signaling

- The task requirements were changed by the project manager
- Need to reassess task requirements with Aerospace team

Milestone 6

- Task 1: Set up GPS signaling

  Hopefully, aerospace team will be ready soon.

- Task 2: Find Raspberry Pi limitations

  Find if the Raspberry Pi is able to handle the full data stream for a prolonged period, if not find a way to decrease framerate of data stream.

- Task 3: Bureaucratic responsibilities for senior showcase

  Anything that Dr. Chan is asking for the completion of the project. Possibly including but not limited to a poster, a demo, updated website, an e-book, evaluation results, and anything else.