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

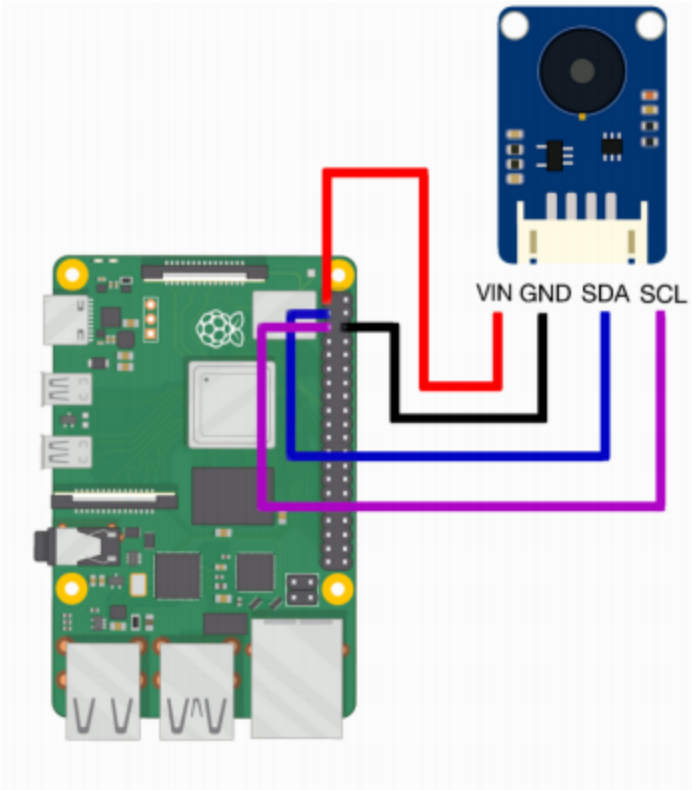
- The CS faculty advisor for this project is Dr. Debasis Mitra
- The client for this project is the project team
- Client meetings on Fridays at 10AM

Tasks for Milestone 1

- Set up all hardware
- Look into simulation software
- Find Python libraries
- Find computer vision database for fires

Task 1 - Hardware

- Raspberry Pi and Adafruit MLX90640



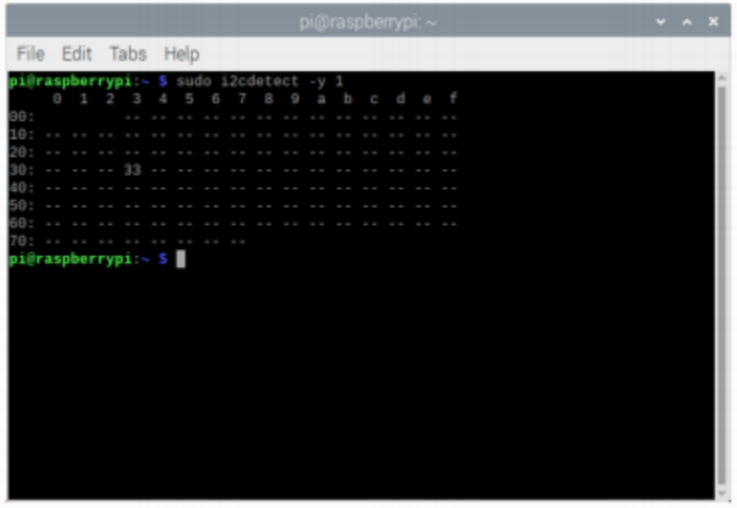
RPI	MLX90640
3.3V	VIN
GND	GND
SDA (Pin 3)	SDA
SCL (Pin 5)	SCL

Task 2 – Simulation Software

- Mission Planner is not useful for CS part of the project

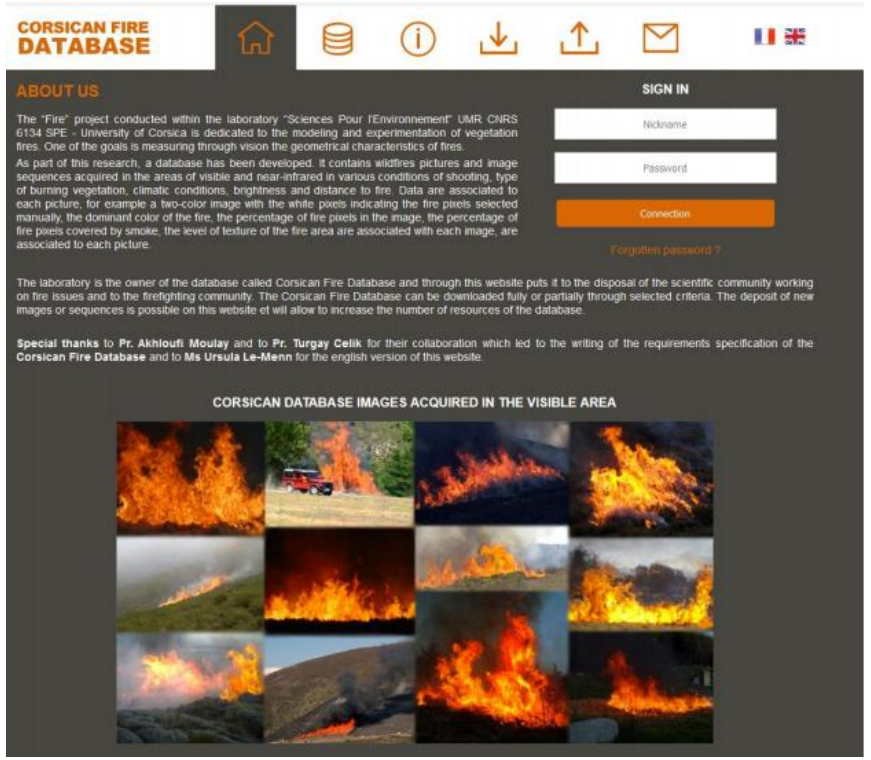
Task 3 – Python Libraries

- Libraries that can be useful: OpenCV, TensorFlow, NumPy, sklearn, and adafruitMLX90640
- Useful for Milestone 2 hello world demos: i2c-tools



Task 4 – Image Database of Fires

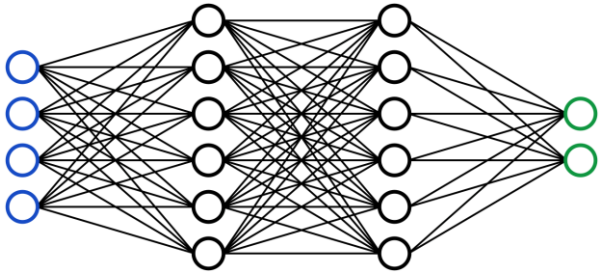
- There is a thermal image database of forest fires. Hard to find



Milestone 2

Order and finish with hardware

Look further into a better simulation program



Start work on the Neural Network