Project Search and Destroy Final Technical Report

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**Acknowledgment**

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This project has taught me a lot about what I am already capable of when it comes to this new career of Computer Engineering which I would not have thought possible if I was not dropped into the depths and made to fight my way out.

Thank you all, I hope you enjoy, and maybe even get a few “ideas” of your own.

**Abstract**

Project Search and Destroy is a project designed to revolutionize modern firefighting. Project Search and Destroy demonstrates how it is possible to send robots into burning buildings to help save people and put out fires instead of putting humans in harm’s way. The main goal of the project is to make the robot as effective and reliable as possible. This robot is able to self-balance, navigate mazes, and put out small fires. Project Search and Destroy will also be able to complete tasks more effectively than humans and at a lower cost.

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**Introduction**

This paper describes the technical details of Project Search and Destroy. The project is a robot that self-balances on two wheels, navigates any standard mazes, detects fire-level temperatures, and deploys fire extinguishing measures. The robot is primarily made of a three-layer, acrylic-sheet body, RC car wheels, and controlled by a Raspberry Pi 4 B. The wheels are controlled by Gearmotor 146 RPM 12V Low Noise DC motors, Power Management IC Development Tools Dual-Channel DC Motor Driver-12A motor drivers, and an Adafruit MPU-6050 6-DoF Accel and Gyro Sensor - STEMMA QT Qwiic gyroscope that the Raspberry Pi uses to get information on the robot’s orientation so that it can be corrected for balancing purposes. The robot also uses Pololu Distance Sensor with Pulse Width Output, 50cm Max in order to detect the walls in front of it and to each side of the maze that it is in. Lastly, the robot uses Adafruit MLX90640 IR Thermal Camera Breakout - 110 Degree in order to detect the fire-level temperature and a Submersible 3V DC Water Pump with 1 Meter Wire - Horizontal Type to extinguish the fire.

**Ethics and Safety**

The primary concerns for ethics in regard to this project are in using the parts and ideas and code from other people and the primary concern for safety is electrical and fire. All images and codes used from outside sources are carefully cited in the reference section.

Electrical safety is a small concern since we are primarily dealing with low voltages except for the wall plug which is used carefully and sparingly. Open flames are used in home experiments testing thermal detection and extinguishing methods. Precautions are taken to remove flammable objects and chemicals and to always have a fire extinguisher on hand.

**Section 1 - Software**

The Raspberry Pi is flashed with the Raspberry Pi OS. The code is primarily written in Visual Studio Code in Python and then run with IDLE – Python 3.9.10. The Raspberry Pi is either accessed through a connected monitor, keyboard, and mouse through HDMI and USB or remotely through a Windows OS laptop and VNC Viewer software through an ethernet cable. The Raspberry Pi is currently powered through the supplied power cable connected to a wall outlet but will be powered through the lithium polymer 4S batteries and a buck converter once they are obtained and created. The Raspberry Pi communicates with the peripherals using the GPIO pins with either simple high/low logic signals or I2C.

Diagram

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Figure 1 - Software Flowchart

Figure 1 shows the basic logic behind the code for navigating the maze and putting out the fire. At the top of the code and always the first thing that is asked is “Does the thermal camera detect a fire?”, if not then the rest of the code involving maze navigation and movement is used, if so then the robot stops, extinguishes the fire, and sets the extinguished flag. The extinguished flag becomes important in the next step where the robot checks if it is outside of the maze. It currently does that by checking if there are no walls around it and if this has been the case for more than 2 seconds. If those conditions are met then it checks if the extinguished flag has been set and if so it has completed its mission and dances and if not it turns around and goes back into the maze. Figure 2 shows an example case of when this might be useful. The white triangle represents the robot and it is assumed to have started at the left entrance and following the maze code it reached the exit at the top right before it reached the fire and therefore needs to turn around and go back into the maze.

Logo

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Figure 2 – Fire After Exit

The next part of the code flow explains why this case would happen as the robot uses a maze-solving logic of following the left-hand wall. You can see how if the robot followed the left-hand wall it would not touch the fire before it exited at the top opening whereas if it hugged the right-hand wall it would in this case, but not every case obviously. There is no particular reason why I chose left-hand over right-hand other than that is what I first wrote into the code, both would have the same efficacy.

It accomplishes this logic by always checking if there is a wall to the left first. If there is not then it checks if the turn lock is on, if the turn lock is not on it turns left, if it is on it goes back to the top and continues moving forward.

Logo

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Figure 3 – Turn Lock Logic

The reason for the turn lock is shown in Figure 3. At the beginning of the maze the turn lock is useful so that the robot actually goes into the maze instead of turning immediately turning left as you can see in the top 3 images. The second reason is so that the robot will not continuously turn left even after it’s already turned left as you can see in the bottom two images.

After the left turn, it checks if there is a wall in front of it if so, it goes to check the right turn logic, if not it goes back to the top, continues forward, and turns off the turn lock. You can see how the turn lock is turned off in Figure 3 when the robot passes a wall to its left. This allows the robot to know that it is safe to start turning left again when necessary.

After all of that, it checks if there is a wall to the right, and if not, it turns right, and if so then it turns around. The only case where there would be a wall on every side is a dead end. You can see how using this logic it would always turn left, if possible, then forward, then right as a last resort and this logic is enough to guarantee that it always follows the left-hand wall.

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Figure 4 – Maze Code Set Up

The code as it stands right now includes the distance sensors and the maze logic. It begins with setting up the libraries, pins, and variables that will be used in the code as you can see in Figure 4. Right now we are using the Raspberry Pi GPIO library to communicate with the GPIO pins, the time library to create pauses, and the pigpio library to determine the pulse width sent in by the distance sensors. The front, left, right, frontLED, leftLED, and rightLED variables coincide with the GPIO pins that are being used for the sensors and LED direction indicators. The next block of code is setting up the front, left and right pins to be used as inputs for the pigpio library. After that is the LED pins being set up as logic outputs. And lastly are the sets of variables that will be used to determine the tick number where the distance sensor inputs rise and fall and the PWM that will be calculated in the pigpio callback function.

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Figure 5 – pigpio Callback Function

![Graphical user interface, application, Word

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Figure 6 – PWM output

In Figure 6 you can see the results of a distance sensor test where the first half of the printout shows the PWM when a white piece of paper is held 3 inches away from a distance sensor (consistently around 1150) and then when nothing is in front of the distance sensor (around 2005).

Text

Description automatically generated

Figure 7 – Callback Function Initialization

Figure 7 shows the initialization of the call-back functions. Pi is the initialization of pigpio, callback is the name of the pigpio method, the first argument is which pin to look at, the second argument is which edge to look for, and the last argument is which function to call-back which calls the functions that were defined earlier that create the PWM. So these call that function any time the corresponding pin changes from low to high or high to low.

A screenshot of a computer

Description automatically generated with medium confidence

Figure 8 – Wall Detection and Beginning of State Machine

Figure 8 shows the initialization of the state machine variable and the turn lock variable as well as the beginning of the running loop, the wall detection criteria, and the top state which is turning left. The wall variables are used to determine the states and are true when the pulse width is less than 1200 and 1500 which corresponds to about 6 inches, the left distance sensor seems to be more sensitive which is why it is higher, not because the left is meant to detect further. State “left” activates the left LED and turns off the rest, an action which will signify in the final robot turning left. The conditions for leaving the left turn state is if the front sensor does not detect anything.

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Figure 9 – Forward and Right States

Figure 9 shows the forward and right states as well as the pause and the end of the code. The forward state starts by turning on the front LED indicator and it is where most of the action happens. This is where the maze logic is implemented, starting with turning off the turn-lock if a left wall is detected. Then the conditions for moving to the left and right state or to stay in the forward state as discussed in the maze logic section. Then the right state is last and similar to the left state in that it turns on the right LED indicator and goes back to forward if there is no wall detected. To finish it off a 1-second pause is added to prevent transitions from happening too fast.

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Figure 10 – Thermal Code

Figure 10 shows the thermal code implemented into the maze code. The thermal code will implement the busio, numpy, and mlx90640 libraries in addition to the libraries already in use. They will be used to communicate with the I2C pins, keep track of the matrix of thermal values that will be retrieved from the thermal camera, and to modify the settings of the thermal camera respectively. The actual code for detecting the fire is quite simple and it is in the bottom of Figure 10 in the running loop. First mlx.getFrame will actually get all of the frames from the thermal camera with their individual temperatures and put them into the matrix called “frame”, then the np.maximum method will find the highest temperature frame and if that temperature is above 100 degree Celsius, it will activate the extinguish LED, indicating that a fire is there and the code to extinguish it needs to be run. The thermalCounter is just a slower counter than the distance sensor counter that makes it so that the thermal camera code only happens every 1 second. If the thermal camera code is activated, which happens whenever one of the frames is above 120 degrees Fahrenheit, then the code stays in the while loop where the rover is set to not move and activate the water pump until the high temperature is gone.

![Text, letter

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4UmORXhpZgAATU0AKgAAAAgACgALAAIAAAAmAAAIkgESAAMAAAABAAEAAAEaAAUAAAABAAAIuAEbAAUAAAABAAAIwAEoAAMAAAABAAIAAAExAAIAAAAmAAAIyAEyAAIAAAAUAAAI7gITAAMAAAABAAEAAIdpAAQAAAABAAAJAuocAAcAAAgMAAAAhgAAEc4c6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAAAAASAAAAAEAAABIAAAAAVdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAMjAyMjowMjoyMiAxNToyMTozMgAADJAAAAcAAAAEMDIyMZADAAIAAAAUAAARpJAEAAIAAAAUAAARuJEBAAcAAAAEAQIDAJKRAAIAAAADODUAAJKSAAIAAAADODUAAKAAAAcAAAAEMDEwMKABAAMAAAABAAEAAKACAAQAAAABAAAB4KADAAQAAAABAAACgKQGAAMAAAABAAAAAOocAAcAAAgMAAAJmAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Description automatically 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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADIwMjI6MDI6MjIgMTU6MjA6MjYAMjAyMjowMjoyMiAxNToyMDoyNgAAAAAGAQMAAwAAAAEABgAAARoABQAAAAEAABIcARsABQAAAAEAABIkASgAAwAAAAEAAgAAAgEABAAAAAEAABIsAgIABAAAAAEAAEAVAAAAAAAAAGAAAAABAAAAYAAAAAH/2P/bAEMACAYGBwYFCAcHBwkJCAoMFA0MCwsMGRITDxQdGh8eHRocHCAkLicgIiwjHBwoNyksMDE0NDQfJzk9ODI8LjM0Mv/bAEMBCQkJDAsMGA0NGDIhHCEyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMv/AABEIAQAA4QMBIQACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/AMoW+MhrggYyRmtCGSMJncCACcj09aYFgXMKNtZwCBkg1Mt3b4/1i9M9e3+SKBksd1bknDg9/wAKla7toyQ8iqV5IJ6dP8RTAk+1W67t0qjaMnkcCn/bLYFh5q/KMtz0HH+IpgPN3bg4Mqj8afFcQyL8jg7QM47ZGf60DJGkjjALttBOMmjzoQu4uAuM5pjE+0Qf89F4GTzR50XZxTuAGeDOPNX0/n/gfypfNi/vjpmgBsk8EY3PKijOMk45pd8ZGQ4x0oAaZI/uhhzzSZTpuFIQ0lB1YD8aQlP7w/OmA0lP76/nTcpn768+9JgIdv8AeH50whfUfnUAMKioytIB3lUUCMCSTy5SfLDFYycn6jircEoe23gIr7CcHkY/wqgEF/Kh2vbJu8sH8T2qaG/kctuhiTMYK5PXpnPp19KBEsWoSuSBbxr+635PPPpU0l66SFJYYN3lbiSx4I28Hj/a4+lCBDhfsTJG9mgKxb8FuOB0JxipmvF864iFrGyoueTjOMe3vTGJLfiN5UNmjchUGfv/AF44FT27w3EzBreIJsVzID34IB4/zihMfUtX8qwWwLQiXc20K3TufT2qK5mhFh9o+zpJuVWKNjOMZFUMpzX1vGZd1ghGFYnIwRz1/L9RTxfxM0xitBvBDEEgFuw7daVxEct/Z5lDWOWMu0gqPmI3cn6bWpZrm0SWRG08N8w3NgYI9TRcCeW7gVLhZbYFFcLwQQ5Iz+gx+dR7bNmkjNicCUAkYwST160BcZHdWu6VobJiVkAbGBkliAevqD+dS2YtrlneOFomjkyQTjJ5GTQAuoyW0RhFxEX3NhcdqZem0t3hWaMnfJkYPQ5A5/EjimIpLc6dIVxFJkvnv36Hr056Uq/YkMWI7kbZdoyzcEkdeenT9feloArS2rNGWiuEKyMowT1PXODzUW+x+Q5uAPMK/MW+9xwfyFTYCJZdNYJ++mAIP3mb07/hT0e1CxbZJTvDbWZSfr27YpAM82D/AJ/pf++E/wDiaKLCKUkpjlOEBKxlv1FW7aYPb7jtV9pOMcYFMBv9oTRtte3Xd5Qb8+1Twai7hvMijT91uH5Dr7c0ATQ6m8kig26KPI356+vFTSXwilKTRwAiHe7E9D8vB/P+VCGH9pAeYrW0I2xbzkjHTuama/jE08YggKogOWIAI+XH4c07gJLqUcZlX7NE3IC424Yep9vrVi3mguZ2QwwhQiuzKRkHAIB/z2FNMZZ1CZILUF4lkDNt2t07n+lRXM8C6f8AaBDG+5VYo2M4xxVDZSm1CCPzc2UZACsSOQeGPp7frUi6gjNN5VoN6kHB4Lc49KVxdSOTUbQGTfZAt5u0jHUjfk9P9lqfJdWwmdGssjcMt2x69KLoCWe+tYVlWeBAgkCjLDDEjJ6+gxQGti7xfZGCiYAkNxk96LiI4bu3KSSQ2ZBWZV54JJzgj9faprMQXJMiRNEyOSVOQc4xzmgBNRltopLdZ4WkLthdo6fWmXrWkEsCTRFi8mVOeAxYD+ZFDAoxXGly7dlu2S2fpwDzz7inI1mrQlbeUFZSic5wTjPf/PNLQBplt2aJvs8q/MyLj179/XNQiTTisRKShWdgMn+Ide/tQwIFk0ZlT7wBViM+mOanR7VUjMfmYZX2MBnqct0+lSBR+3Wv/Pe5/wC+D/hRVE6CSSMk2FQErGWBI9xVy2mMlvk7VkKkjjjjvipGMF/dRkK8KZ8oNnB5J/HtViDULhvvxxKDFuHGcHHfnpQBLDqdxI20wxriItnBPIz2qd7+eJ9kscGfJ3MeeG+Xj9f0pjHf2lMC6Pax5WEv144HQnFTNf8A7+aIQRMqJkEnGeAfTpzTC4yXU2jeRBaxkHaEwfvZx19BzU8M8VzcMHgiCbFcvnnOAQDx7/pTTH1LF/OLe3BaJZAzbdrdPXn8qiubiIWH2jyEk3KrFGx0xkVQFObUYY/OLWMbABWJ4OeCeeOo2/qKeNRQvN5VmvmKwJycFucDt1pXAjl1K0Hm77FSTLtYFR82Ax3H/vhqJbu2Wd0OnRnEg3PtBH1PFFwLD30SJKstsu3zdgAIIY9SfwpkYs3cqdPUKJsbgFxu67vrRcQy3vrcqTb2AGZQCBgEkjg/kasaf9mucyJb+SyOfk6ZPqcUgFv5baO4tkng8xmb5Dj7vIpl49nbT26ywbiXyrf3SSB/MihgUIrjTZPKCWhBLHGMZBwD6+hFLF9jD2xjtJlYMyJ85+X178jikA0vau0LtazA/MiYY49+h5zVcyacEjLW8wU78ZZjyN2c889DQBF52lELmOXBUk5LH2555qdZLQJGFSYK0TkMCSQM5bnrnP8ASkwMP7Z4a/v3/wD309FPUjQvSSOkwCqCRGzDjqeOKuWczy267xtkIYj5T0HepKGfbryMqDCDmPePlPf/AA4qxBqFyx/eRouY8ghScHB6+3FAD7bU7mSXa8KKvlF8gHtViTUZYZAk4gH7je7EH5Tx+lNAJ/asgDh4YABD5mSRt9smpX1NfOmQRweWsYYMxABGAc/TmncY19VVPMAghYYXbgjBBI5PPA571Yhu4Lm5dGSAIEV2IIypIUgH8/5etNMfUs6jOLa2DMiOCwXDnA7nn8qiubqJLD7R5UTsVVmjYgHkZAq7gUp9Uhi87dZxMFCsSDnOQx5wPbH41OmoqzzhLRQ6sODwWOcDt1qebUEQSapbDeHslJMuDnHOA53Hj/Zanvewi4eM2S4WT5nzx9elFxbks2oQwqVmhjCmby1y3DHjJ5HbP50kcsLOE+xgL520MG4zyc07gRW19E8Ykhsdv70KFPBOVByOPQ/pVqx8m4AlWDynRj8hzkE+vApbgF7cQRXltHJA0jOflYDheR/9amXk9rbTwo8Bck5UjnB9vU0MGU4rqwl2Klmc5I47HA706F7bzYDHZu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Figure 11 - Gyroscope Readings

The code for the gyroscope and running the motors is currently in development and the code we are using now to test it comes from the adafruit github. Above you can see the printout from our MPU6050 gyroscope tested with the adafruit code. This will be used to determine the tilt of the robot and then there will be code to instruct the motors how to move to compensate tilt.

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Figure 12 - PID - Part 1

Figure 12 shows the first part of the PID code that declares the K values for the complimentary filter and the initialization of the gyro variables and functions to find the angles. pidC is the class that takes in the angle values and returns the PWM value.

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Figure 13 - PID - Part 2

Figure 13 shows the initialization of the PID values and the beginning of the while loop where the gyro values are received and put into variables. lastX takes in the value calculated by the complimentary filter and then pid.step() actually takes in the angle and returns the PWM amount into pidX. If the PWM is positive it goes forward and if it’s negative it goes backward.

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Figure 14 - PID - Part 3

The while loop ends in figure 14 where the else statement makes the rover not move and the time of the loops is set.

**Section 2 – Raspberry Pi**

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4vNV3ZyrAZ+WmvcyR/u8gr696KKsuI1bhmVypJI6571esdQIYK64BHNFFSxheJDeTkGPBHU1C1iyqSpGPU0UVLAqrcFVdGAfHH1qIgThVQCMYoooGQSzS2cgbIJ7EV1ng7ULHVJlTUFJPbbmiiqBnRaxolk8b/AGVm8oDBDVw40dvMYOwkjJwOBkUUVUtNhLUxrq2ENw6KzSYPc4ooooTZPKj/2Q==)

Figure 15 – Raspberry Pi 4

              The Raspberry Pi 4 is the brain of the operation.  The Raspberry Pi 4 Model B (Figure 12) is a microprocessor with a Broadcom BCM2711, Quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz, 8 gigabytes of RAM, and 40 GPIO pins. The memory is stored in a 128 GB micro SD card. For our purposes, we are using both of the I2C sets of pins and both of the PWM pins as well as several general-purpose logic pins.

**Section 3 –** **MLX90640 IR Thermal Camera**

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Figure 16 - MLX90640 IR Thermal Camera

          The MLX90640 is a thermal camera that captures infrared light within a 110-degree arc and based on the energy of that infrared light it determines the temperature of the objects that gave it off. This is then communicated as an array of 768 individual temperature values that make up the whole frame and that is communicated via the I2C ports. It is powered with 5 volts from the Raspberry Pi and connected to GPIO 2 and 3, the first set of I2C pins on the Raspberry Pi.

**Section 4 – Pololu Distance Sensor with Pulse Width Output, 50cm Max**

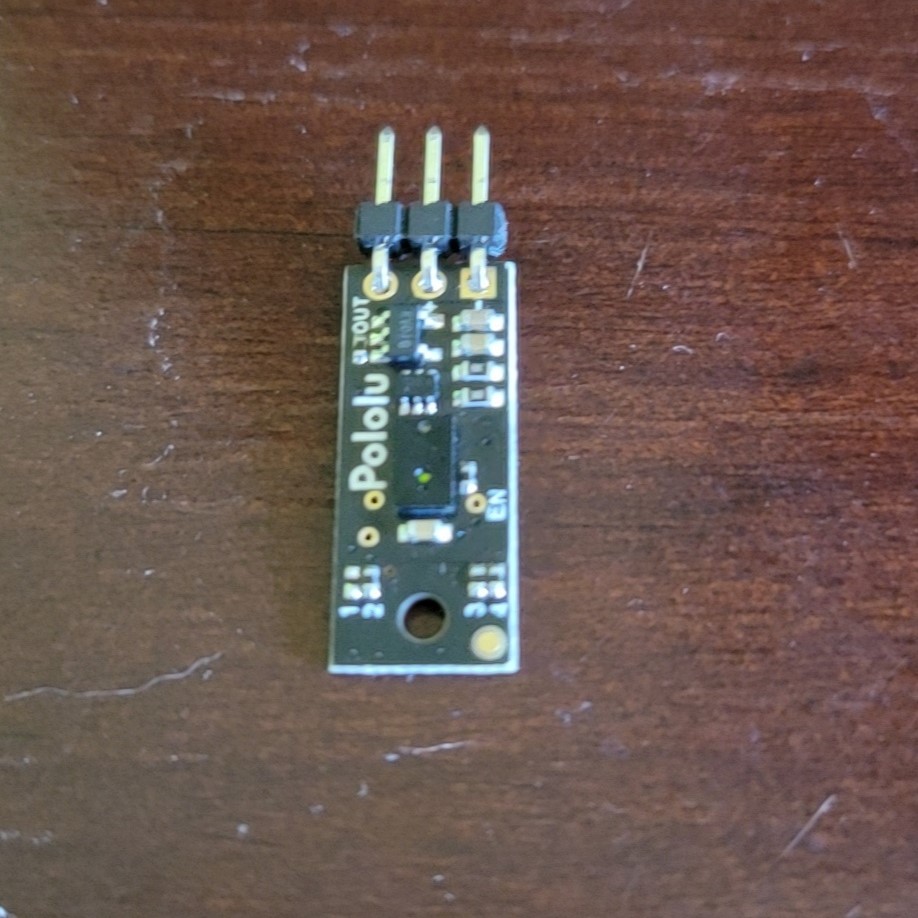


Figure 17 - Pololu Distance Sensor with Pulse Width Output, 50cm Max

                   The Pololu Distance Sensor works by sending out Infrared light and timing how long it takes for it to bounce off of the objects in front of it and bounce back. It then sends this information to the Raspberry Pi in the form of pulse width modulation. The higher the pulse width, the closer the object. With no object represented by the highest pulse width. We are powering these with 3.3 volts from the Raspberry Pi GPIO pins and it is sending the signal into the standard Raspberry Pi logic pins.

**Section 5 - 12V Low noise DC Motor 143RPM w/Encoder**

A picture containing text, electronics

Description automatically generated

Figure 18 - Motors

  The motors we are using are the 12V Low noise DC Motor 143RPM w/Encoder. The motors run on 12 volts, have a 56:1 gear ratio, and can run at 143 RPM. They also include encoders which we will use to smooth the driving and help with balance. They will be powered by the 12 V battery and controlled with the dual-channel DC motor drivers.

**Section 6 - Dual-Channel DC Motor Driver-12A**

A close-up of a circuit board

Description automatically generated with medium confidence

Figure 19 – Motor Driver

  The motor driver is a dual-channel DC motor driver from DFRobot that will be used to control the motors and enable us to change the direction of the motor to move backwards and forwards. It will take in PWM and logic inputs from the Raspberry Pi and use that to determine how to send power from the battery to the motors. In that way it also serves to separate the Raspberry Pi from the high current and voltage of the motors.

**Section 7 - Adafruit MPU-6050 6-DoF Accel and Gyro Sensor - STEMMA QT Qwiic**

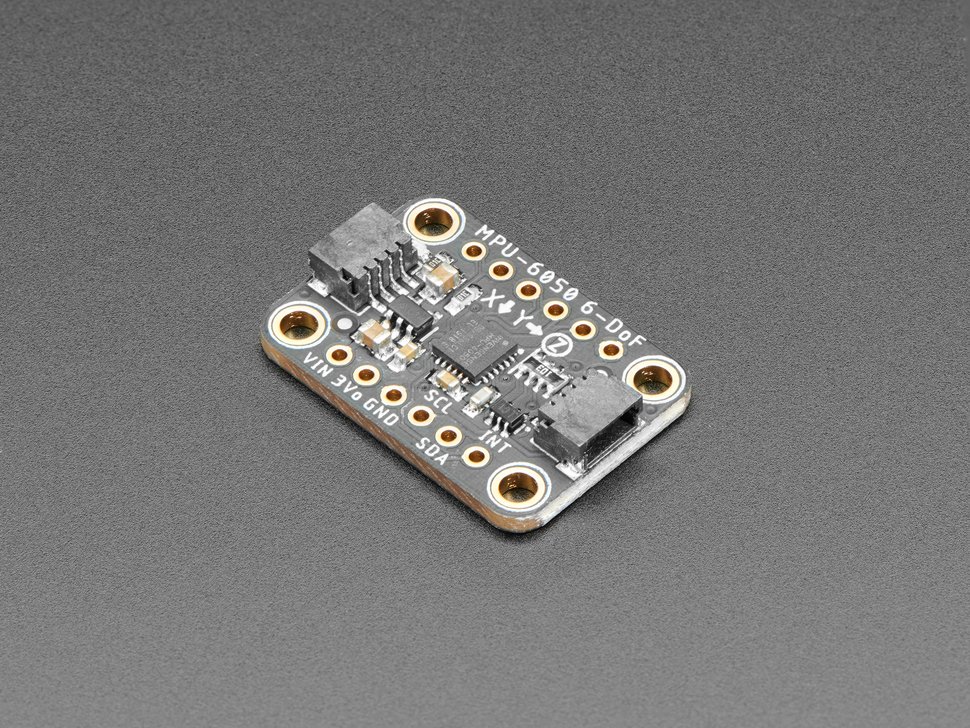


Figure 20 – MPU 6050 Gyro

           The MPU 6050 is an accelerometer and gyroscope that we will use to determine the tilt of our robot so that we can tell how much to adjust and make it self-balancing. We will power it with 5 volts from the Raspberry Pi and it will communicate with the second set of I2C pins on the board, pins 0 and 1.

**Section 8 - Zeee 14.8V 4S Lipo Battery 50C 3300mAh Soft Case Battery with XT60 Plug (2 Packs)**

A picture containing text

Description automatically generated

Figure 21 – Batteries

The power source for the robot will be Zeee lithium polymer batteries with 14.8 V and 3300 milliamp hours. This power will be fed directly to the motors and stepped down using a buck converter to power the Raspberry Pi. Everything else will be powered from there through the Raspberry Pi.

**Summary and Conclusion**

The project is about halfway complete. The remaining tasks are to design and create the buck converter, create and implement the gyro/self-balancing/motor code, and create a fire extinguishing system. Not having parts and having to work on several other components has slowed the development of the motor system, but now that those are out of the way focus can be brough to that system and the project will be in a good place with ample time to refine and test mazes. It seems realistic and reasonable that the robot will be up and moving around within the next 2 weeks and then the refinement process can begin.

**References**

* Tutors: Akhil and Dana​ and Andrew Majors
* Professor: Mark Haustein
* TTU for the equipment​
* https://github.com/adafruit/Adafruit\_MPU6050 for the gyroscope code
* <https://www.adafruit.com/product/3886> for the information on the MPU6050 and the picture
* <https://www.dfrobot.com/product-1861.html> for the information and picture for the motor driver
* <https://www.amazon.com/Zeee-Battery-3300mAh-Airplane-Helicopter/dp/B08NDV319J/ref=sr_1_10?keywords=4s+lipo+battery&qid=1646769492&sr=8-10> for the information and picture for the batteries

**Appendix A – Gantt Chart**

Timeline

Description automatically generated

Figure 22 - GANTT Chart

The Gantt Chart shows the progress of our group throughout the 3 months of the project. It is broken up into the different components of the robot, project start, and final testing. Areas that are complete are marked with a green check mark and areas that are in progress are marked with a yellow caution triangle. As you can see the 3D model and motor control are the things that are behind and the maze code and heat detection are the things are ahead of schedule, with the fire extinguisher and final testing yet to be started.

**Appendix B – Budget Chart**

Graphical user interface, application

Description automatically generated

Figure 23 - Budget Chart

The budget chart shows the various costs associated with the project. Starting at the top with labor costs for the project members. The left column is the actual current running total and the right column is the estimated end of project total. Under the project member costs are the outside labor, including professor, lab tutor and outside help. Then is the direct material and equipment rental costs. The equipment rental being base on a 0.2% rate. The graph on the right shows the estimated amounts in color and the running in gray. The gray is clearly less than halfway to the estimated indicating that the project will come in below budget.