

Team Minutes for Team 7

Delete the instructions in black italics and replace them with your team's information. Add new information after each meeting and save the document with the current date after the document name. This will create one long document that includes the minutes of all team meetings. You will have the old versions saved under document names with the previous dates in case they are needed.

Team Members' Names	
Jonah Bertolino	
Hunter Burnham	
Joseph Kirby	
Caden Nubel	
Joel Shorey	

Meeting Agenda Template

Meeting Date: Put date here	Start Time: Record time meeting started End Time: Record meeting end time Summary of Meeting
1. Attendance	Record members present (if absent, include reasons and whether teammates were notified in advance).
2. Purpose of Meeting	
3. Discuss work completed since last meeting.	Team members report on what has been accomplished. Record notes of those reports here.
4. Summarize work completed during meeting	Summarize discussion and work accomplished.
5. Review action items to be completed after meeting	Who will do what by when?
6. Schedule next meeting	Note time, place, and purpose.
7. Recording secretary	Note who took the meeting minutes and the date that meeting minutes were circulated by e-mail.

Meeting 1

meeting 1	
Meeting Date: 2/12/2024	Start Time: 2:00 pm End Time: 3:00 pm Summary of Meeting
1. Attendance	All members attended
2. Purpose of Meeting	Start of project meeting
3. Discuss work	Jonah Bertolino: Start of project, no previous work
completed since	Hunter Burnham: Start of project, no previous work
last meeting.	Joseph Kirby: Start of project, no previous work
	Caden Nubel: Start of project, no previous work
	Joel Shorey: Start of project, no previous work
4. Summarize work completed during meeting	Discussed Objectives for the next week, assigned tasks to each group member, and discussed logistics on how to work with each other over the course of the project. Started discussing how to go about completing each task.
5. Review action items to be completed after meeting	Jonah Bertolino: Determining Quadrant of Aruco Marker
	Hunter Burnham: Implement LCD Threading, Communication with Arduino
	Joseph Kriby: Establish GitHub on Pi, Assist Hunter and Jonah
	Caden Nubel: Create and implement PI controller
	Joel Shorey: Create and implement PI controller
6. Schedule next meeting	Monday 2/19/2024 at 12:00 pm
7. Recording secretary	Hunter Burnham

Meeting 2

Meeting Date: Put date here	Start Time: 1:30 pm End Time: 2:30 pm Summary of Meeting
1. Attendance	All members attended
2. Purpose of Meeting	Talking about documentation and wrapping up mini project.
3. Discuss work completed since last meeting.	Jonah Bertolino: Interfaced threading code and aruco quadrant detection code/developed code
	Hunter Burnham: Established the threading and I2C communication between pi and Arduino

	Joseph Kirby: Established Github on Pi, worked on aruco detection and handling of markers
	Caden Nubel: Made the PI controller code
	Joel Shorey: Matlab simulation for PI controller, helped interface computer vision with controls
4. Summarize work completed	Discussed all of our tasks that we completed since last week, talked about next steps for completing documentation and
during meeting	cleaning up code, preparing for end of week assignments
5. Review action items to be completed after meeting	Jonah Bertolino: Complete documentation, update Github
	Hunter Burnham: Complete documentation, update Github
	Joseph Kirby: Complete documentation, update Github
	Caden Nubel: Complete documentation, update Github
	Joel Shorey: Complete documentation, update Github
6. Schedule	Monday Feb 26, 2:00pm
next meeting	
7. Recording	Joseph Kirby
secretary	

Meeting 3

Meeting 5	
Meeting Date: 2/28/2024	Start Time: 2:00 pm End Time: 4:00 pm Summary of Meeting
1. Attendance	Jonah Bertolino, Joseph Kirby, Hunter Burnham, Caden Nubel, Joel Shorey
2. Purpose of Meeting	Pi group discussed how to find angle from camera to Aruco marker. Arduino group is figuring out how to get the robot to drive in a straight line.
3. Discuss work completed since last meeting.	Jonah Bertolino: Figured out how calibrate the camera.
	Hunter Burnham: Put some headers in Mini Project code. Worked on finding angle from camera to Aruco marker using camera calibration
	Joseph Kirby: Worked on finding angle from camera to Aruco marker using camera calibration
	Caden Nubel: Worked on the code to get the robot to drive straight and thought abstractly about how to decompose the problems.
	Joel Shorey: Finished up all the Mini project documentation code. Started working on Demo 1 with Caden.

4. Summarize work completed during meeting	Pi group discussed what we were going to work on moving forward, such as finding the distance from the center of the screen to the Aruco marker. Arduino group
5. Review action items to be completed after meeting	Jonah Bertolino: Find distance from camera to Aruco marker
	Hunter Burnham: Find distance from center of screen to the Aruco marker on the screen
	Joseph Kirby: Find distance from center of screen to the Aruco marker on the screen
	Caden Nubel: To have the robot drive in a straight line.
	Joel Shorey: To have the robot drive in a circle
6. Schedule next meeting	Next Monday at 2:00 pm
7. Recording secretary	Jonah Bertolino

Meeting 4

Meeting Date: Put date here	Start Time: Record time meeting started End Time: Record meeting end time Summary of Meeting
1. Attendance	Jonah Bertolino, Joseph Kirby, Hunter Burnham, Caden Nubel, Joel Shorey
2. Purpose of Meeting	Pi group discusses how they have a backup plan for finding the angle using math. Today they need to figure out how to find the angle using calibration.
3. Discuss work completed since last meeting.	Jonah Bertolino: Found the horizontal FOV while working with Joseph of the camera so we could correctly find the angle with 0.3 degrees using math.
	Hunter Burnham: Found the angle using calibration using a camera matrix
	Joseph Kirby: Found the horizontal FOV while working working with Jonah using math. Also assisted Hunter with coding the calibration.
	Caden Nubel: Rewrote the entire code to implement a forward velocity and rotational velocity vector. Also tuned controllers.
	Joel Shorey: Debugged the controllers. Worked on debugging the first implementation strategy. Put together turning and moving forward code.

4. Summarize work completed during meeting	
5. Review action items to be completed after meeting	Jonah Bertolino: Create a video presentation of camera finding angle
	Hunter Burnham: Create a video presentation of camera finding angle
	Joseph Kirby: Create a video presentation of camera finding angle
	Caden Nubel: Finish tuning and figure out how to drive straight and rotate properly then create a video presentation.
	Team member: Finish tuning and figure out how to drive straight and rotate properly then create a video presentation.
6. Schedule next meeting	Monday at 2:00 pm
7. Recording secretary	Jonah Bertolino