

Team Minutes for Dolphin Tanks

Team Members' Names
Alexander Miles
Devin EA
Travis Aga
Yuxi wakeshima

Meeting 1

Meeting Date: 2/14/2022	Start Time: 12:00 End Time: 12:45 Summary of Meeting Started overall discussion and talked about future plans.
1. Attendance	<i>All members present</i>
2. Purpose of Meeting	<i>To discuss about mini project 1.</i>
3. Discuss work completed since last meeting.	<i>This is our first team meeting, so far there hadn't been any work accomplished yet</i>
4. Summarize work completed during meeting	<i>We finished the team charter, read the mini project handout, talked about what we each need to do and the due dates.</i>
5. Review action items to be completed after meeting	<i>Everyone needs to start doing what their assign roles job according to the mini project handout</i>
6. Schedule next meeting	<i>Student center ballroom/Brown 304</i>
7. Recording secretary	<i>Recording secretary is yuxi wakeshima, the date circulated by email is Feb/14/2022.</i>

Meeting 2

Meeting Date: Put date here	Start Time: 1:00pm Record time meeting started End Time: 2:20pm Record meeting end time Summary of Meeting
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	We focused on doing our individual parts, sharing our work together and discussing how to put everyone's project together for the demonstration.
1. Attendance	<i>All members present</i>
2. Purpose of Meeting	<i>To see where everyone is at their individual project as well as gathering what we need from each other.</i>
3. Discuss work completed since last meeting.	<i>Reading the handouts, figuring out pins, understanding what's going on as well as working on individual parts.</i>
4. Summarize work completed during meeting	<i>Encoder Arduino code finished; motor assembly finished.</i>
5. Review action items to be completed after meeting	<i>Continuing each person's respective jobs.</i>
6. Schedule next meeting	<i>FEB 25th, brown 304/student center</i>
7. Recording secretary	<i>Yuxi wakeshima, date circulated by email is FEB/18/2022</i>

Meeting 3

Meeting Date: 03/04/2022	Start Time: 12:15 End Time: 12:45 Summary of Meeting We defined our roles, and set goals to be done before next week.
1. Attendance	<i>All members present</i>
2. Purpose of Meeting	<i>We need to solidify each member's contributions to this project.</i>
3. Discuss work completed since last meeting.	<i>Since last meeting, we finished and demonstrated the miniproject.</i>
4. Summarize work completed during meeting	<i>Our roles are going to be: Devin – Calculate encoder for turns according to input state Travis – Implement chessboard algorithm Yuxi – Work on step response relative to the velocity, and tune the PI controller Alex – work on state machine from camera and encoder.</i>
5. Review action items to be completed after meeting	<i>Finalize the robot shape and get the wheels turning according to an input state. Also, get camera/pi to define the states.</i>
6. Schedule next meeting	<i>03/11/22 12pm in student center</i>
7. Recording	<i>Devin Ea</i>

secretary	
Meeting 4	
Meeting Date: 03/11/2022	Start Time: 11:59am End Time: 12:30pm Summary of Meeting <i>Discuss finalizing robot physical design and motor control.</i>
1. Attendance	<i>All members present</i>
2. Purpose of Meeting	<i>Discuss finalizing demo one</i>
3. Discuss work completed since last meeting.	<ul style="list-style-type: none"> • <i>MATLAB stuff done</i> • <i>Robot design nearing finalization</i> • <i>Encoder counts to real life math</i> • <i>Camera outputs correct angle</i>
4. Summarize work completed during meeting	<i>Planned function for robot to call for its rotation. Review camera angle and adjust according to current FOV.</i>
5. Review action items to be completed after meeting	<i>Finalize robot function, i.e. turning and start/stop. Test camera and optimize output time and quality. Angle camera down more on the robot.</i>
6. Schedule next meeting	<i>In student center, date TBD</i>
7. Recording secretary	<i>Devin ea</i>

Meeting 5

Meeting Date: 04/01/2022	Start Time: 12:00Pm End Time: 12:30PM Summary of Meeting <i>We discussed what we are going to need for Demo 2, which is connecting of pi and arduino</i>
1. Attendance	<i>All members preseny</i>
2. Purpose of Meeting	<i>Discuss beginning and planning of demo 2</i>
3. Discuss work completed since last meeting.	<i>We successfully demo'd Demo 1 stuff</i>
4. Summarize work completed during meeting	<i>We need to make parameters for the pi to send data to the Arduino to move and stop</i>
5. Review action items to be completed after meeting	<ul style="list-style-type: none"> • <i>Error-free I2C connection</i> • <i>Robot movement function consistency</i> • <i>Movement parameter definitions</i>
6. Schedule next meeting	<i>Student Center, one week from now</i>

7. Recording secretary	Devin Ea
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Meeting 6

Meeting Date: 04/08/2022	Start Time: 12:15PM End Time: 12:30PM Summary of Meeting Discussed the refinements needed before Demo 2 day
1. Attendance	<i>All members present</i>
2. Purpose of Meeting	<i>We needed to see what's left to do, and what improvements are going to be needed.</i>
3. Discuss work completed since last meeting.	<i>Robot is connected, and can function autonomously. Battery holder implemented, less movement of robot bits.</i>
4. Summarize work completed during meeting	<i>We said that we are going to modify the camera settings and the position of the camera itself to create a more consistent environment for blue tape detection.</i>
5. Review action items to be completed after meeting	<i>Get camera adjusted. Adjust Arduino code if needed, but avoid modifying it, and adjust Pi code instead. Add small changes as needed.</i>
6. Schedule next meeting	<i>Student center, date TBD</i>
7. Recording secretary	Devin Ea

Meeting 7

Meeting Date: Put date here	Start Time: Record time meeting started End Time: Record meeting end time Summary of Meeting
1. Attendance	
2. Purpose of Meeting	
3. Discuss work completed since last meeting.	
4. Summarize work completed during meeting	
5. Review action items to be completed after meeting	
6. Schedule next meeting	

7. Recording secretary	
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Meeting 8

Meeting Date: <i>Put date here</i>	Start Time: <i>Record time meeting started</i> End Time: <i>Record meeting end time</i> Summary of Meeting
1. Attendance	
2. Purpose of Meeting	
3. Discuss work completed since last meeting.	
4. Summarize work completed during meeting	
5. Review action items to be completed after meeting	
6. Schedule next meeting	
7. Recording secretary	

Meeting 9

Meeting Date: <i>Put date here</i>	Start Time: <i>Record time meeting started</i> End Time: <i>Record meeting end time</i> Summary of Meeting
1. Attendance	
2. Purpose of Meeting	
3. Discuss work completed since last meeting.	
4. Summarize work completed during meeting	
5. Review action items to be completed after meeting	
6. Schedule next meeting	

7. Recording secretary	
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Meeting 10

Meeting Date: <i>Put date here</i>	Start Time: <i>Record time meeting started</i> End Time: <i>Record meeting end time</i> Summary of Meeting
1. Attendance	
2. Purpose of Meeting	
3. Discuss work completed since last meeting.	
4. Summarize work completed during meeting	
5. Review action items to be completed after meeting	
6. Schedule next meeting	
7. Recording secretary	

Meeting 11

Meeting Date: <i>Put date here</i>	Start Time: <i>Record time meeting started</i> End Time: <i>Record meeting end time</i> Summary of Meeting
1. Attendance	
2. Purpose of Meeting	
3. Discuss work completed since last meeting.	
4. Summarize work completed during meeting	
5. Review action items to be completed after meeting	
6. Schedule next meeting	

7. Recording secretary	
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Meeting 12

Meeting Date: <i>Put date here</i>	Start Time: <i>Record time meeting started</i> End Time: <i>Record meeting end time</i> Summary of Meeting
1. Attendance	
2. Purpose of Meeting	
3. Discuss work completed since last meeting.	
4. Summarize work completed during meeting	
5. Review action items to be completed after meeting	
6. Schedule next meeting	
7. Recording secretary	

Meeting 13

Meeting Date: <i>Put date here</i>	Start Time: <i>Record time meeting started</i> End Time: <i>Record meeting end time</i> Summary of Meeting
1. Attendance	
2. Purpose of Meeting	
3. Discuss work completed since last meeting.	
4. Summarize work completed during meeting	
5. Review action items to be completed after meeting	
6. Schedule next meeting	

7. Recording secretary	
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Meeting 14

Meeting Date: <i>Put date here</i>	Start Time: <i>Record time meeting started</i> End Time: <i>Record meeting end time</i> Summary of Meeting
1. Attendance	
2. Purpose of Meeting	
3. Discuss work completed since last meeting.	
4. Summarize work completed during meeting	
5. Review action items to be completed after meeting	
6. Schedule next meeting	
7. Recording secretary	

Meeting 15

Meeting Date: <i>Put date here</i>	Start Time: <i>Record time meeting started</i> End Time: <i>Record meeting end time</i> Summary of Meeting
1. Attendance	
2. Purpose of Meeting	
3. Discuss work completed since last meeting.	
4. Summarize work completed during meeting	
5. Review action items to be completed after meeting	
6. Schedule next meeting	

7. Recording secretary	
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