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| WEEK 1: 9/17/18 - 9/24/18 | |
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| Previous goals (met or outstanding): | N/A |
| Current week progress/blockers: | <ul style="list-style-type: none">— We submitted the project proposal— I set up Ben/Dave's ip address and dns, need to change to a static ip— I installed latest ROS version, may need different version later— We started backlog for first sprint— I did some more CV research, a few additions to the reading log— Signed up for scrumdesk |
| Plan for this week: | <ul style="list-style-type: none">— Turn in hard copy of proposal— Create scrum backlog on scrumdesk— Research CV implementations in ROS and OpenCV |
| Team summary: Stand ups (~ 15 minutes) | <ul style="list-style-type: none">— Monday stand up (9/17):<ul style="list-style-type: none">— Discussed our project proposal— I promised some Dave set up— Thursday stand up (9/20):<ul style="list-style-type: none">— We decided to finish proposal over the weekend— We briefly discussed Programming Robots with ROS book— Monday stand up (9/24)<ul style="list-style-type: none">— We discussed Mariah's trip and the backlog— I communicated that I needed to give Dave a static ip |

| WEEK 2: 9/24/18 - 10/1/18 | |
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| Previous goals (met or outstanding): | <ul style="list-style-type: none">✓ — Turn in hard copy of proposal✓ — Create scrum backlog on scrumdesk✓ — Research CV implementations in ROS and OpenCV |
| Current week progress/blockers: | <ul style="list-style-type: none">— We created the scrum backlog in class (and out of class also)— I read a couple sections of the Programming with ROS book— I gave Dave a static IP and proved one could ssh into it— I emailed Shereen about user story feedback |
| Plan for this week: | <ul style="list-style-type: none">— Make sure first sprint is finalized on scrumdesk— Continue reading Programming with ROS book— Finish any additional tasks assigned tomorrow (Tuesday 10/2) in our sprint revisions.— A code repository will be created |
| Team summary: | <ul style="list-style-type: none">— Thursday stand up (9/27): |

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| Stand ups (~ 15 minutes) | <ul style="list-style-type: none"> — Messaged about the progress on scrumdesk — We both made sure we were on track and weren't blocked — Monday stand up (10/1): <ul style="list-style-type: none"> — Mariah shared thoughts on user stories — Mariah filled me in on meeting with Shereen — We discussed what can be done in the second half of sprint 1 |
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| WEEK 3:10/1/18 - 10/8/18 | |
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| Previous goals (met or outstanding): | <ul style="list-style-type: none"> ✓ — Make sure first sprint is finalized on scrumdesk ✓ — Continue reading Programming with ROS book ✓ — Finish any additional tasks assigned tomorrow (Tuesday 10/2) in our sprint revisions. ✓ — A code repository will be created |
| Current week progress/blockers: | <ul style="list-style-type: none"> — Set up the ROS Hello World program — Read more of the Programming with ROS book |
| Plan for this week: | <ul style="list-style-type: none"> — Set up next sprint tomorrow (10/9) — Do tasks assigned in sprint (TBD) — Continue reading ROS book |
| Team summary: Stand ups (~ 15 minutes) | <ul style="list-style-type: none"> — Thursday stand up (10/4): <ul style="list-style-type: none"> — Just a check in. Nothing much to report. — Monday stand up (10/8): <ul style="list-style-type: none"> — Mariah told me about some ideas from Grace Hopper Conference — Keep in mind left handed people exist when designing gestures — We may need the Kinect to usb adapter |

| WEEK 4:10/8/18 - 10/15/18 | |
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| Previous goals (met or outstanding): | <ul style="list-style-type: none"> ✓ — Set up next sprint tomorrow (10/9) ✓ — Do tasks assigned in sprint (TBD) — Continue reading ROS book |
| Current week progress/blockers: | <ul style="list-style-type: none"> — Set up sprint 2! — Got USB Camera to pull images and video — Discovered ffmpeg could be used to collect video |
| Plan for this week: | <ul style="list-style-type: none"> — Continue to play around with the input from the USB camera to determine if it is suitable for the project — Work on a demo using OpenCV — Attempt to use OpenCV with the video collected from the USB camera — Research existing implementations of gesture recognition |

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| <p>Team summary:</p> <p>Stand ups (~ 15 minutes)</p> | <ul style="list-style-type: none"> — Thursday stand up (10/11): <ul style="list-style-type: none"> — Planned out the sprint with Mariah — Met with Shereen to learn more about the grading criteria for sprints — Monday stand up (10/15): <ul style="list-style-type: none"> — Mariah is continuing to read the ROS book — Mariah is working on set up for the Raspberry Pi next — Discussed demos of OpenCV and ROS for next Tuesday — Hannah suggests that we pivot the project — We consider the idea of 3D printing some parts for a future sprint |
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| WEEK 5:10/15/18 - 10/22/18 | |
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| Previous goals (met or outstanding): | <ul style="list-style-type: none"> ✓ — Continue to play around with the input from the USB camera to determine if it is suitable for the project ✓ — Work on a demo using OpenCV ✓ — Attempt to use OpenCV with the video collected from the USB camera ✓ — Research existing implementations of gesture recognition |
| Current week progress/blockers: | <ul style="list-style-type: none"> — Still working on researching different implementations of gesture recognition — Thinking about what needs to happen next sprint has been difficult — A monitor/keyboard has been set up for the Raspberry Pi — Wifi is working on the Pi — A couple demo programs using OpenCV are working on Dave |
| Plan for this week: | <ul style="list-style-type: none"> — Going to OSU tomorrow (10/23) — Plan sprint 3 — Get ROS/OpenCV demos on the Pi |
| <p>Team summary:</p> <p>Stand ups (~ 15 minutes)</p> | <ul style="list-style-type: none"> — Thursday stand up (10/18): <ul style="list-style-type: none"> — Mariah updated me on progress on setting up the Pi — I updated Mariah on the OpenCV demos — Monday stand up (10/22): <ul style="list-style-type: none"> — We discussed our visit to OSU tomorrow (10/23) |

| WEEK 6:10/22/18 - 10/29/18 | |
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| Previous goals (met or outstanding): | <ul style="list-style-type: none"> ✓ — Going to OSU tomorrow (10/23) ✓ — Plan sprint 3 ✓ — Get ROS/OpenCV demos on the Pi |
| Current week progress/blockers: | <ul style="list-style-type: none"> — Started sprint 3 — Looked at the different ROS installations for Dave — Looked into some of the OpenCV functionality |
| Plan for this week: | <ul style="list-style-type: none"> — Install the correct version of ROS on Dave — Report on the OpenCV API — Work on programmatically collecting video data with OpenCV |
| Team summary: Stand ups (~ 15 minutes) | <ul style="list-style-type: none"> — Thursday stand up (10/25): <ul style="list-style-type: none"> — Went over our demos — Briefly discussed sprint 3 — Monday stand up (10/29): <ul style="list-style-type: none"> — Just checked in with each other |

| WEEK 7:10/29/18 - 11/5/18 | |
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| Previous goals (met or outstanding): | <ul style="list-style-type: none"> ✓ — Install the correct version of ROS on Dave ✓ — Report on the OpenCV API ✓ — Work on programmatically collecting video data with OpenCV |
| Current week progress/blockers: | <ul style="list-style-type: none"> — Getting general consensus between Pi and Dave with running code — Reported on the OpenCV library interface — Investigated the performance issues on the Pi — Found a better camera (yay) |
| Plan for this week: | <ul style="list-style-type: none"> — Plan sprint 4 — Start sprint 4 |
| Team summary: Stand ups (~ 15 minutes) | <ul style="list-style-type: none"> — Thursday stand up (11/1): <ul style="list-style-type: none"> — Backlog refinement — Monday stand up (11/5): <ul style="list-style-type: none"> — Talked about sprint 4 |

| WEEK 8:11/5/18 - 11/12/18 | |
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| Previous goals (met or outstanding): | <ul style="list-style-type: none"> ✓ — Plan sprint 4 ✓ — Start sprint 4 |

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| Current week progress/blockers: | <ul style="list-style-type: none"> — Planned the sprint! — Discussed our initial gesture set — Discussed initial test gesture (peace sign) — Discussed the role of orientation of hands in gesture recognition — Read more about current gesture implementation strategies (ML is often used) |
| Plan for this week: | <ul style="list-style-type: none"> — Write a program that will recognize a gesture of our choosing (peace sign is the current goal) — Make an effort to implement a few strategies so that we can assess how well various strategies work — Put some more thought into our initial gesture set |
| Team summary: Stand ups (~ 15 minutes) | <ul style="list-style-type: none"> — Thursday stand up (11/8): <ul style="list-style-type: none"> — Discussed a few gesture implementation details — Discussed where we would each start in the sprint — Mariah remembered (very cleverly) that we solved the problem of “start” and “stop” gestures in our design of Recipe Wizard with the idea of a toggling gesture — Monday stand up (11/12): <ul style="list-style-type: none"> — Talked about sprint progress — Talked briefly about Hand and Mind and not finding much useful material from the text, at the moment |

| WEEK 9:11/12/18 - 11/19/18 | |
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| Previous goals (met or outstanding): | <ul style="list-style-type: none"> ✓ — Write a program that will recognize a gesture of our choosing (peace sign is the current goal) ✓ — Make an effort to implement a few strategies so that we can assess how well various strategies work ✓ — Put some more thought into our initial gesture set |
| Current week progress/blockers: | <ul style="list-style-type: none"> — Talked to Hannah B. about the initial gesture set — Got a poorly performing gesture recognition program running — Discussed writing our report and presentation |
| Plan for this week: | <ul style="list-style-type: none"> — Plan sprint 5 — Start sprint 5 — Continue working on gesture recognition code |
| Team summary: Stand ups (~ 15 minutes) | <ul style="list-style-type: none"> — Thursday stand up (11/15): <ul style="list-style-type: none"> — Discussed a winter release — Discussed our next sprint goals — I demonstrated some of the gesture recognition work — Monday stand up (11/19): <ul style="list-style-type: none"> — Mariah had set up a shared document for our report |

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| | <ul style="list-style-type: none"> — Mariah showed me some thresholding examples — Discussed comments disappearing on scrumdesk |
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| WEEK 10:11/19/18 - 11/26/18 | |
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| Previous goals (met or outstanding): | <ul style="list-style-type: none"> ✓ — Plan sprint 5 ✓ — Start sprint 5 ✓ — Continue working on gesture recognition code |
| Current week progress/blockers: | <ul style="list-style-type: none"> — Drafted fall report — Started building robot |
| Plan for this week: | <ul style="list-style-type: none"> — Finish building robot — Continue writing fall report — Continue drafting presentation |
| Team summary: Stand ups (~ 15 minutes) | <ul style="list-style-type: none"> — Thursday stand up (11/22): <ul style="list-style-type: none"> — Checked in on progress — Monday stand up (11/26): <ul style="list-style-type: none"> — Talked about current progress on report draft |

| WEEK 11:11/26/18 - 12/3/18 | |
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| Previous goals (met or outstanding): | <ul style="list-style-type: none"> ✓ — Finish building robot ✓ — Continue writing fall report ✓ — Continue drafting presentation |
| Current week progress/blockers: | <ul style="list-style-type: none"> — Working on report and presentation — Robot built |
| Plan for this week: | <ul style="list-style-type: none"> — Study for exams — Practice presentation (Thursday & Sunday) |
| Team summary: Stand ups (~ 15 minutes) | <ul style="list-style-type: none"> — Thursday stand up (11/29): <ul style="list-style-type: none"> — We decided standup will work the same time next semester — We decided on two times to practice our presentation — We decided to try and meet with Shereen late next week — Talked about the CV diagram — Talked about presentation flow — Monday stand up (12/3): <ul style="list-style-type: none"> — Talked about the report and presentation — Talked about using Xtensio for persona creation — Talked about winter release and decided it will start on Dec 18th |

| WEEK 18: 12/3/18 - 2/4/19 | |
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| Previous goals (met or outstanding): | <ul style="list-style-type: none"> ✓ — Study for exams ✓ — Practice presentation (Thursday & Sunday) |
| Current week progress/blockers: | <ul style="list-style-type: none"> — Pi needs to be replaced — All five gestures can now be recognized [winter] — A motor can move [winter] — Fixed bug with RIGHT gesture |
| Plan for this week: | <ul style="list-style-type: none"> — Finish final report outline — Finish tests of left and right handed gestures — Start work on connecting Pi and Dave via ROS |
| Team summary: Stand ups (~ 15 minutes) | <ul style="list-style-type: none"> — Thursday stand up (1/31): <ul style="list-style-type: none"> — Mariah was away. I sent a brief message about progress. — Monday stand up (2/4): <ul style="list-style-type: none"> — Check in. Talked briefly about replacement Pi. |

| WEEK 19: 2/4/19 - 2/11/19 | |
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| Previous goals (met or outstanding): | <ul style="list-style-type: none"> ✓ — Finish final report outline X — Finish tests of left and right handed gestures ✓ — Start work on connecting Pi and Dave via ROS |
| Current week progress/blockers: | <ul style="list-style-type: none"> — Did research into how to connect Pi and Dave via ROS — Got advice from Mariah about how to usefully test the gestures — Looked into improving finger counting algorithm |
| Plan for this week: | <ul style="list-style-type: none"> — Connect Dave and the Pi — Define how the gesture recognition program and the motors will message pass — Finish tests on gesture accuracy |
| Team summary: Stand ups (~ 15 minutes) | <ul style="list-style-type: none"> — Thursday stand up (2/7): <ul style="list-style-type: none"> — Discussed replacement Pi — Monday stand up (2/11): <ul style="list-style-type: none"> — Discussed what needs to happen to finish up sprint — Mariah is working on GPIO and motor control — Discussed current issue with Pi motor control that may hold us up |

| WEEK 20: 2/11/19 - 2/18/19 |
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| Previous goals (met or outstanding): | <ul style="list-style-type: none"> ✓ — Connect Dave and the Pi ✓ — Define how the gesture recognition program and the motors will message pass ✓ — Finish tests on gesture accuracy |
| Current week progress/blockers: | <ul style="list-style-type: none"> — Blocking us is GPIO related motor error — Pi #3 is on the way! Root caused the failure. |
| Plan for this week: | <ul style="list-style-type: none"> — Planning next sprint — Working on motor related errors |
| Team summary: Stand ups (~ 15 minutes) | <ul style="list-style-type: none"> — Thursday stand up (2/7): <ul style="list-style-type: none"> — Met with Dr. Daws — Monday stand up (2/11): <ul style="list-style-type: none"> — Discussed what needs to happen to finish up sprint — Discussed GPIO work |