**CU Senior Design Performance Evaluation Template**

Employee: Cole Radetich

Reviewer: Dr. Xiao

Review Period (Fall or Spring): Fall

**Review Period Overall Performance Score**

This score represents overall performance of the team member. While it should generally represent an average score from the Core Competency categories, it may deviate due to exceptional performance in a smaller number of areas. Similarly, this number does not necessarily correspond to the assigned grade in the course.

Employee-assigned Score: 4 (1 – 5, with 5 being the highest)

Reviewer-assigned Score:       (1 – 5, with 5 being the highest)

**Core Competencies**

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| *Exceptional:* Performance consistently exceeds expectations. | *Exceptional (5)* | *Highly Effective (4)* | *Proficient (3)* | *Inconsistent (2)* | *Unsatisfactory (1)* |
| *Highly Effective:* Performance frequently exceeds expectations. |
| *Proficient:* Performance consistently meets expectations. |
| *Inconsistent:* Performance meets some, but not all expectations. |
| *Unsatisfactory:* Performance consistently fails to meet minimum expectations, team member fails to utilize necessary skills. |
| 1. **Accountability:** Takes on equitable responsibilities and tasks, and appropriately manages time to complete assigned task   *Employee Comments*: I try to make myself useful even outside of the computer science competency I have.  *Reviewer Comments*: Continue to be a good communicator and take on tasks. |  |  |  |  |  |
| 1. **Technical Proficiency:** Pursues a technical role on team and demonstrates technical proficiency within role   *Employee Comments*: Highly knowledgable on computers, 3/5 for general engineering knowledge but this is getting better.  *Reviewer Comments*: Good |  |  |  |  |  |
| 1. **Active Participation:** Engages during director/client meetings (clearly conveys personal contributions to project, provides constructive feedback, and consistently expects quality)   *Employee Comments*: I could be a little more direct instead of being so jovial but otherwise I communicate well  *Reviewer Comments*: Jovialness is good. Focus on time and place. |  |  |  |  |  |
| 1. **Interpersonal Skills:** Interacts effectively with others to establish and maintain smooth working relationships   *Employee Comments*: Works well with others.  *Reviewer Comments*: Good |  |  |  |  |  |
| 1. **Resource Utilization:** Uses CU and team resources effectively and under appropriate circumstances   *Employee Comments*: Could be better about taking advantage of the labs and excellent professors engineering here has to offer  *Reviewer Comments*: Also, don't be afraid to use your teammates as a resource. There are other computer-literate folks. |  |  |  |  |  |
| 1. **Professionalism:** Exhibits professionalism and effective communication   *Employee Comments*: Could be less silly/joking  *Reviewer Comments*: Same as before, time and place. Some joking is good for the work environment. |  |  |  |  |  |
| 1. **Technical Communication:** Effectively communicates technical information in both oral and written forms   *Employee Comments*: Not so good with engineering terminology but this is coming to me slowly.  *Reviewer Comments*: Continue to listen and learn |  |  |  |  |  |

**Performance Summary (to be completed by employee)**

What did you do this semester? (please put together a list of tasks that you directly contributed towards, your specific responsibilities, and what skills you utilized)

0) As Systems Engineer, I first assembled us all into subsystems and helped us form communication channels to more effectively discuss project subtasks.

1) Rented and tested Raspberry Pi 3B+

2) Developed software to test gpio, validate components, and interface via USB over the commandline

3) Procured a Raspberry Pi Zero and retested code on that computer

4) Helped write all reports, especially final reviews and helped Sebastian work over the test plans.

What did you learn this semester? (make a list of the technical and non-technical items that you learned over the semester, being very specific about the learning outcomes. E.g. “learned how to perform XYZ specific hand calculation when looking at XYZ” is better than “learned how to do hand calculations”).

Generally, I learned a ton about engineering communication, coming over from computer science. I am beginning to understand the acronyms and interesting ways in which engineers get things across to each other. Technically, I learned a lot about using Linux in a firmware environment and using SBCs like the Raspberry Pi. I've began to dive deeper into module and firmware programming and I think that will prove incredibly useful in my life going forward.

What are 1-2 things you didn’t complete or succeed at? What happened, and what could you have done better to improve performance/outcomes? How did this impact others and the trajectory of your project?

I was late to a few meetings and missed a few assignments, I could organize myself better and find more time for sleep and recreation so my mind is not so cluttered. Organizing my papers and files more is a big priority of mine aswell.

**Personal Goals (evaluated by both Employee and Director)**

Please evaluate the team member on their personal goals for the Senior Design project.

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| **Goal #1: Role-Specific Goal** |
| Goal Description:  I hope to find better ways to interface with raw signals through GPIO on SBC computers. With this, I hope to give Ball and whoever accesses this technology a good, upgradeable, module-  based system for controlling our sensor. My hopes are that this system is easily changed and upgraded, along with easily understood, by any competent user. |
| Goal Metrics:  Ability for any engineer to use and change the system easily once complete. |
| Interim Goal Progress (November/December):  So far, all has been written in Python--this makes our software modular and easy to read and digest. So far so good! |
| Goal Results (April): |
| **Goal #2: Individual Goal** |
| Goal Description:  I hope this project allows me to find better habits when working with a team—I tend to find  myself taking on extra work and being less of a team player. I will be putting this habit aside for this project though and spending my effort trying to work as smoothly as I can in a team-  player way. |
| Goal Metrics:  Find out specifically each day/week/month what I am needed for, and execute  these tasks. |
| Interim Goal Progress (November/December):  I have been very focused on my own task but also finding ways to be helpful with things I'm less involved with. I think this is going very well. |
| Goal Results (April): |
| **Goal #3: Teamwork Goal** |
| Goal Description:  In slight contrast to my last statement, I hope to find myself taking on lots of work for the  team in a productive way—I want to prove that I can not only carry my weight as a computer  scientist but also find myself being helpful in other areas of the project (optics, electronics,  etc). |
| Goal Metrics:  Find out extra tasks each day/week/month what I am needed for, and execute  these tasks. |
| Interim Goal Progress (November/December):  Again, I have been very focused on my own task but also finding ways to be helpful with things I'm less involved with. Working with the electronics team and manufacturing team on overlap has facilitated a lot of this. |
| Goal Results (April): |
| **Goal #4: Technical Goal** |
| Goal Description:  I, through this project, would like to master my \*nix (Linux or Unix) low-level system  processing. For example, at the end of this project I would like to be able to take any POSIX  computer and program it to interface in a low-level manner with its serial or GPIO interface. |
| Goal Metrics:  Ability to interface with low-level communication ports of POSIX computers. |
| Interim Goal Progress (November/December):  I am getting very good at writing both kernal modules and system services through practice I've been doing for this project. This is encouraging and already showing in my ability to write code. |
| Goal Results (April): |