**Hamster Mouse Project Team Charter**

**ME476C: Capstone I**

**Signature Cover Page**

Each team member will copy the following statement in their own handwriting (LEGIBLY) in one of the designated areas below:

**I agree to do an equal amount of work in the team.  I understand that my grade will reflect my effort in the team.**

**Print Name:** **Joseph Lopez** **Signature:**



**Print Name: Rylee Horney** **Signature:**

**Print Name:** **Jared Hemauer** **Signature:**



**Print Name: Keenan Keams**  **Signature:**



**1.0 Team Purpose**

Our team was assembled based on the project description and our shared interest in robotics. Because every member had some sort of video gaming experience, the idea piqued our interest. The team's goal is to develop a mouse that will improve the user's immersion as they play computer games. Our goal is to complete our capstone requirements to receive our diploma in autumn 2024.

The client, Reza Sharif-Razavian, the project's estimated advisors, Dr. Lerner and Terae Jones, potential sponsors, and computer gamers are all parties involved in the hamster mouse project. The team must collaborate with the sponsored research group, provide user-forced input, and produce a final prototype within budget, according to the client's expectations. Gamers expect the mouse to improve their gaming experience, be simple to use, and work with most PCs and Macs. Businesses contributing to the initiative will anticipate that their funding will be used appropriately and that a prototype will exist.

**2.0 Team Goals**

  The team's project process calls for us to complete tasks on time, adhere to deadlines, operate efficiently, and communicate clearly both as a team and with clients. To address any issues that may come up during the process in a timely manner and avoid missing deadlines, our team would want to remain ahead of schedule. Completing the project process will depend on meeting deadlines. For the project to ensure that the two previously stated goals are met, efficiency is crucial. To ensure a successful project, our team wishes to keep in constant contact with one another regarding the tasks that need to be done or that have already been accomplished. Keeping the client informed about our progress toward deliverables and compliance with his specifications through weekly communication will help to ease their concerns.

Above average performance is the level the team is willing to achieve. Every team member is willing to work hard to get a better grade even if they all have obligations outside of school. Collectively, the team wants to receive an "A" on the course. Every member is aware of the requirements needed to complete the course and earn that grade.

**3.0 Team Member Personalities/Roles/Responsibilities**

  Joe Lopez- Team Manager

Jared Hemauer- CAD Engineer

Rylee Horney- Financial and Coding Engineer

Keenan Keams – Testing Engineer and Secondary CAD Engineer

**4.0 Ground Rules**

The team plans to meet on Tuesdays and Fridays each week. Tuesday's discussions, which will center on weak obligations, will be supervised by the team. The sessions on Friday will primarily be used to discuss the team's progress on the project, with the client in attendance. Mutual respect was one of the guiding concepts that the team decided upon. Another rule that encourages teamwork is to make sure that everyone completes their fair share of work, which is typically connected to their area of expertise.

The group has made the decision to handle disagreements maturely. We'll get our act together, politely speak with the offending team member, and ensure that the issue is remedied. We'll hold each other accountable by using the honor system. If a team member doesn't meet expectations, the team will let the professor in charge of the capstone project know, but only if things get bad enough for the professor to need to get in touch with them.

One of the main expectations for this project is that every team member will be highly committed and actively involved. Our team's innate drive and passion created the foundation for our joint quest for excellence. We expect a steadfast adherence to schedules and project objectives, creating a setting where each participant makes a significant contribution. The expectation of proactive engagement and a sense of accountability for the project's success are fueled by our common belief in our collective potential.

 Moreover, we envision a collaborative atmosphere wherein team members actively seek opportunities to support and elevate each other. This mutual reliance stems from our shared aspiration for outstanding results. A pledge to maintain open lines of communication and transparent collaboration serves as the bedrock of our expectations. Recognizing the inherent capabilities within the team, we anticipate a continuous exchange of ideas and feedback, with each member contributing their unique strengths. This amalgamation of commitment, mutual support, and a shared vision propels us towards achieving not only individual goals but also the overarching success of the entire project.

**5.0 Potential Barriers and Coping Strategies**

Taking up a senior project with significant graduation requirements raises the possibility of several obstacles to productive collaboration. Different schedules and time constraints among team members are one potential problem. Because of the project's important nature, resolving these calls for careful planning and the establishment of clear communication channels. This problem can be lessened by frequent check-ins, synchronized calendars, and proactive detection of any scheduling conflicts. The group should also create backup plans for task redistribution if unanticipated events occur.

Previous encounters could provide information about possible issues with team dynamics. Problems like poor communication, incompatible work styles, or an uneven assignment of duties may have come up in the past. By taking lessons from these setbacks, the team may build strong communication procedures and make good use of individual abilities. It will be essential to promote an environment where problems may be discussed candidly and to encourage open communication. Preventive actions such as creating a feedback loop and conducting regular team assessments can help to guarantee that any new problems are quickly found and fixed.

In addition, the project's high stakes create pressure, which raises the possibility of stress and burnout. It is critical to identify the symptoms of individual or group stress. Burnout can be lessened by putting in place a support structure, promoting a good work-life balance, and cultivating a positive team culture. Through prioritizing the common objective of graduating and fostering transparent communication, the team can anticipate obstacles and take proactive measures to overcome them. This fosters a cooperative and encouraging atmosphere that supports the successful completion of projects and graduation.