

# ECE 445 Team 20 Contract

Spencer Gallagher, swg3

Keith Bevans, kbevans2

Nishita Amberkar, nda6

## Project Description:

For our project, we will be building a mat that will serve as an accessory to the game of beer pong. This mat, intended to be placed atop a table on which beer pong would normally be played, will function as an electronic scorekeeper as well as a tool to ensure that cups are placed and filled properly.

## Project Goals:

If our team succeeds, we will have created a mat that can indicate to a user where to place their cups, indicate when a cup is too full or too empty, indicate when a cup has been hit, and display the score of a game, the score of a series, and whose turn it is to throw to the users.

## Expectations For Each Member:

Each team member must be dedicated to this specific project to a point where they are meeting deadlines, communicating with other teammates clearly and often, and being detail oriented in completing tasks. We strongly believe that communication should be a top priority for the group because everybody will have their own tasks and things will need to be pieced together seamlessly. Along with piecing together our solo tasks, open collaboration is required for everybody to have a say in how the project moves forward, and each team member must have some sort of input on a decision because it may affect them while down the line. Teammates must also keep an open mind and be able and willing to accept constructive criticism from other teammates, this creates an environment that is focused and direct. We also want to make sure this criticism pushes teammates to improve upon any designs. The next big thing we look to expect from each other as a team is dedication. We want every member to put time into the project but not so much where other commitments are degrading. This encourages efficient and planned work as a team and as an individual.

## Roles:

We plan to divide certain tasks, such as research and testing, equally amongst the three of us. However, given that Spencer is an electrical engineer and Keith and Nishita are computer engineers, we foresee that Spencer will plan a more prominent role in hardware design and building, while Nishita and Keith will play a more prominent role in programming. These roles are flexible, and each member has expressed a willingness to work outside their area of expertise if necessary.

## Project Meeting Times:

We will meet each Tuesday with our TA from 4:20-4:40 PM to discuss our progress. In addition, we will set aside each Thursday afternoon as time for us to convene as a team for as long as necessary to work on tasks that require the three of us to be together. In the event that a certain Thursday does not work for the entire team, we are committed to rescheduling to ensure that we are meeting at least once a week.

## Agenda:

If it becomes necessary to work on the project outside of the times specified above, we as a team will identify the tasks that members can do individually and tasks that must be done as a team, and communicate with each other to make time to complete all tasks. Each team member promises to keep a close eye on the course calendar so as to ensure that we do not lose sight of upcoming deadlines. All decisions will be approved by consensus. Each team member will take turns updating the lab notebook, but one member will be in charge of holding onto the notebook and ensuring it is brought to each meeting.

## Process and Penalties:

Given that the three of us were friends before this course began and that we have faith in each other's commitment to the team and to our project, we do not foresee the need to settle any serious disputes. However, in the event that the rules of this contract are broken and such a dispute may occur, we agree that we will always first attempt to settle things amongst ourselves and only bring in TAs or an instructor if the situation requires it (e.g. if a member is unresponsive, staunchly refusing to contribute, etc.). We agree to give each other the benefit of the doubt and to allow each team member the chance to communicate and explain themselves should extenuating circumstances limit their ability to contribute.

### End-of-Term Agreement:

Each member understands that the final peer assessment will affect our grades, and that should we perform unsatisfactorily (i.e. below the standards set out in this contract), our teammates have the right to express their dissatisfaction in the peer assessment.

### Signatures:

I affirm that I participated in generating this team charter and that I will abide by its contents to the best of my ability. Furthermore, I understand that failure to meet the expectations expressed here can lead to the stated consequences.

netID: swg3 Signature: Spencer W Gallagher Date: 2/17/22

netID: kbevans2 Signature: Keith Bevans Date: 2/17/22

netID: nda2 Signature: Nishita Amberkar Date: 2/17/22