**ECEN 361—Embedded Systems**

**Project Definition**

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| **Your Team** | Trevor Gibbs and Shannon Vega |
| **Unique Team Name** | Los Cholos |

1. Describe the type of project you will be creating.

Pomodoro study technique (timer)

1. Describe key elements you’ll need to learn to accomplish your project.

* Pomodoro technique
* How to connect and wire external hardware to a microcontroller.
* How to code it so the user can personalize it.
* How to work as a team (2) to complete an embedded system.

1. Make a list of specific requirements (that is, functionality) that will be implemented in your software (add more rows if needed).

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| **Your Project Requirements** |
| Start/Stop timer |
| Pause/Continue timer |
| Increase/Reduce time in timer |
| Alarm sound/Vibration |
| LED indicator |
| Screen display of time |

1. Provide a high-level schedule for your project, including researching, implementing features, and testing. Researching includes anything that you do not currently know how to do.

**8 weeks**

1-2nd week (Last week of May) 🡪 Research on parts (sound device, display, microcontroller, LEDs, vibration device).

3-5th week 🡪 Ordering and wiring (setting hardware together) plus some software development.

6-7th week 🡪 Software development

8th week🡪 Debugging and testing.

1. The team leader is responsible for scheduling and conducting all team meetings. Who will be the team leader for your project?

Trevor Gibb