

Town & Country Learning Center | Global TIES

The center provides resources, opportunities, and guidance for students of various backgrounds, with the goal of encouraging, inspiring, and providing guidance for them to aspire towards healthy social, personal, and academic lifestyles.

Motivational Homework Management Application

Mission:

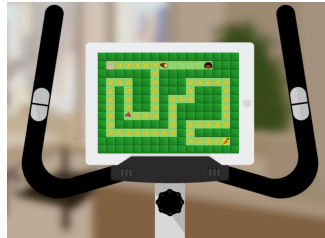
To provide the students of the TCLC with a fun and interactive quest game application that tracks their homework completion and motivates them to sustain good academic habits.

Design Overview:

- Students will log into an iOS "game" where they can log the homework that they completed to get to the next level.
- TCLC coordinators will be able to access the data from the game to allow them to easily monitor student assignments and activities

Build Overview:Product:

- Tools/Frameworks: Unity, React, Firebase
- Languages: Javascript, HTML, CSS, C#



UC San Diego
Jacobs School of Engineering

Pedal2Play: Fitness Gaming System

Mission:

To provide the students of the TCLC with an entertaining gaming system that is connected to a physical fitness machine to motivate the students to take part in more physical fitness activities.

Design Overview:

- Students use a stationary bike to promote physical fitness, while providing motivation and engagement through a visual gaming system that is connected and powered by the use of the stationary bikes, as seen through the picture on the left.

Build Overview:

- Tools: Raspberry Pi 2, Arduino Nano, RetroPi: A Retro Videogame Emulator, Infrared Sensor, Relay Module
- Languages: Arduino, Javascript, CSS, HTML