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| Project Name: Calm Lights | | | | | | | | |
| Student Name: Nicole DeVoe Rogers | | | | Capstone Date: | | | | |
| **Project Motivation and Overview:**  I noticed when a new project is announced in class that my breathing changes and anxiety ensues which makes my breathing more unregulated thus, decreased mental clarity. My project, Calm Lights, will make the lights in the room pulsate to a breathing rhythm that is aligned with calming and more regulated to keep me on task.  **Minimum Features:**   * Control 2 Wemo devices to be used as alerts that breathing exercise is about to begin. * Hue Lights that pulsate to a breathing rhythm. * Using the OLED Display as a calming effect on remote with button. * Creating a translucent orb top that can display colors and base for remote with 3D printing.   **Desired Features:**   * Hue Lights to change to an array of calming colors. * Creating a remote base that incorporates the use of the laser for graphics * Using Wemos for automatic and manual mode.   **Stretch Goal Features:**   * Incorporate a heart rate monitor | | | | | | | | |
| **Anticipated Components:**   * button * heart rate monitor * neopixels | | | | | | | | |
| **Concerns and Considerations (Project Risks and Potential Mitigations)**   * Being sabotaged by the complexity | | | | | | | | |
| **Other Information:**  Hue bulbs sine wave | | | | | | | | |
| p''/Project Implementation Timeline: | | | | | | | | |
| Tasks | Day 1 | Day 2 | Day 3 | | Day 4 | Day 5 | Day 6 | Day 7 |
| Project Plan | X | X |  | |  |  |  |  |
| code for A,started B code breadboard |  | X |  | |  |  |  |  |
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| Presentation |  |  |  | |  |  |  |  |