Bryan Takemoto

CPE301 – SPRING 2018

Design Assignment 4

**DO NOT REMOVE THIS PAGE DURING SUBMISSION:**

The student understands that all required components should be submitted in complete for grading of this assignment.

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| --- | --- | --- | --- |
| **NO** | **SUBMISSION ITEM** | **COMPLETED (Y/N)** | **MARKS**  **(/MAX)** |
| 1 | COMPONENTS LIST |  |  |
| 2. | TASK 1 [DC MOTOR] SCHEMATIC AND BREADBOARD |  |  |
| 3. | TASK 1 [DC MOTOR] C CODE |  |  |
| 3. | TASK 1 [DC MOTOR] FLOW CHART |  |  |
| 3. | TASK 2 [STEPPER MOTOR] SCHEMATIC AND BREADBOARD |  |  |
| 3. | TASK 2 [STEPPER MOTOR] C CODE |  |  |
| 4. | TASK 2 [STEPPER MOTOR] FLOW CHART |  |  |
| 5. | TASK 3 [SERVO MOTOR] SCHEMATIC AND BREADBOARD |  |  |
| 5. | TASK 3 [SERVO MOTOR] C CODE |  |  |
| 6. | TASK 3 [SERVO MOTOR] FLOW CHART |  |  |
| 7. | VIDEO LINKS TO ALL TASKS |  |  |
|  |  |  |  |
|  |  |  |  |

1. **COMPONENTS LIST AND CONNECTION BLOCK DIAGRAM w/ PINS**

List of Components used:

Switch

Capacitors and Resistors

DC Motor

Stepper Motor

Servo Motor

Potentiometer

1. **INITIAL/DEVELOPED CODE OF TASK 1/A**

Insert initial code here

1. **MODIFIED CODE OF TASK 2/A from TASK 1/A**

Insert only the modified sections here. Use more sections if needed

1. **SCHEMATICS**

Use fritzing.org

1. **SCREENSHOTS OF EACH TASK OUTPUT (ATMEL STUDIO OUTPUT)**
2. **SCREENSHOT OF EACH DEMO (BOARD SETUP)**
3. **VIDEO LINKS OF EACH DEMO**
4. **GITHUB LINK OF THIS DA**

**Student Academic Misconduct Policy**

<http://studentconduct.unlv.edu/misconduct/policy.html>

“This assignment submission is my own, original work”.

NAME OF THE STUDENT