Intelligent System Design II

Electrical and Computer Engineering

Clemson University

Weekly Progress Report and Planning Sheet

*Lazy Latte Art*

Leah Brown, Luke Swetonic, Jacqueline Bendziewicz, Mariah Tam, Elise Ferkler, Derrick Joyce

Week of: February 13, 2023

Activities Completed This week (bullet points):

* Updated PMP
* Set up a new Raspberry Pi
* Started programming the servo
* Started programming the linear actuator
* Started on physical design
* Decided on 3 latte art designs to implement in final demo

| Student (update) | Individual Accomplishment(s)/Effort(s) contributing to Team Efforts | PMP sync?\* |
| --- | --- | --- |
| Elise Ferkler | Updated Gantt chart in PMP, wired servo and linear actuator, and help design initial ideas for physical design | yes |
| Jackie Bendziewicz | Soldered initial Raspberry pi, updated milestones and objectives in PMP, and helped brainstorm initial physical prototype. | yes |
| Leah Brown | 3D printed a new cup holder design, updated figures in PMP, helped with initial Raspberry pi setup | yes |
| Derrick Joyce | Helped set up initial Raspberry pi setup, researched python libraries and software to control servo/linear actuator | yes |
| Luke Swetonic | Setup initial Raspberry Pi Zero with OS and tested on motor and LED. Helped set up Raspberry Pi 4 with OS and helped test on servo. Researched ways to eliminate jitter from servo. | yes |
| Mariah Tam | Updated diagrams for PMP, researched python libraries for servo/linear actuator, and started researching how to design GUI in python. | yes |

\* Please answer as Yes, No or Ahead, which represent on-schedule, late and ahead-of-schedule progress with respect to the PMP.

Activities in Progress (bullet points):

* Working on servo precision and reducing jitter
* Working on linear actuator precision

Activities to be Started Next Week (bullet points):

* Start getting angles/length desired for servos and linear actuators
* Start constructing physical design
* Start modeling the milk cup holder

Issues for Immediate Action and Attention (bullet points):

* Servo twitching when sleep
* Unable to consistently/precisely control linear actuator

Materials and Supplies Needed (bullet points):

* Update on sliders?