1.10 Weekly Status Report for NASA Team #2

September 19, 2018　　Submitted by: Clayton Mullin

Faculty Advisor: Dr. Stern

Team Members:
Clayton Mullin [PM]
Levi Stalsworth
Patrick Caserta
Heron Salinas

Sponsor: Dr. Salazar

<mark>Green</mark> – Current Project Status

Continuing research on how to connect components (Rasberry Pi 3, Arduino Uno, DMX 512 Lighting Protocol, RGB LED strips vs. panels) as well as which GUI libraries to implement. Meeting with sponsor in order to address successfulness of our design and questions that were compiled last week.

Activities/Accomplishments this week

Team Member	Description
Levi	Completed project scope for SOW. Continued researching GUI libraries; deciding between python and kivi, or java and G4P.
Patrick	Completed product scope for SOW. Continuing research communication networks, ethernet protocol, and how to connect processors via ethernet.
Heron	Researched photo sensor. Completed business need for SOW.
Clayton	Researched DMX connection to LEDs. Decided on panels instead of strips. Completed executive summary and sponsor support elements for SOW

Problems Encountered

Severity	Description
High	None.
Med	None.
Low	Unable to contact sponsor up to this point.

Activities planned for next week

Team Member	Description
Levi	Continue to narrow down language selections between python tkinter or piqt.

Patrick	Continue to research circadian rhythm and begin process for functional spec.
Heron	Continue to research Arduino's connection to DMX512 and photo sensor.
Clayton	Begin to formulate parts sheet for what exactly needs to be ordered. Finish level 1 project proposal..

Upcoming Course Deliverables (next 2 to 3 weeks)

Deliverable	Due Date	Status
SOW	09/24/2018	In progress
Level I Project Proposal	09/28/2018	In progress
Functional Spec	10/15/2018	Not started

Sponsor and Faculty Advisor Meetings Held/Planned

Who	Date	Topic(s)
Dr. Stern	09/20/2018	Discuss successfulness of SOW.
Dr. Salazar	09/19/2018	Discuss design practicality. Confirm main goals for project.
Dr. Aslan	09/19/2018	Discuss successfulness of SOW.

1.10 NASA Team #2 Open Action Items

9/19/18 Last Update

Date	Description	DRI	Due By	#D	Notes / Comments
9/19/18	Finish research on circadian rhythm	Patrick Caserta	9/26/18	7	biological effects on human.
9/19/18	Decide on what language to use.	Levi Stalsworth	9/26/18	7	python and kivi, or java and G4P.
9/19/18	Research Photo Sensor	Heron Salinas	9/26/18	7	None.
9/19/18	Compile parts list	Clayton Mullin	9/26/18	7	Make sure it fits in budget
9/19/18	Begin functional spec	Patrick Caserta	9/26/18	7	Rough outline
9/19/18	Finish level 1 project proposal for NASA	Clayton Mullin	9/26/18	7	

# items	Team Member
1	Levi Stalsworth
2	Patrick Caserta
1	Heron Salinas
2	Clayton Mullin

1.10 NASA Team #2 Milestone Schedule

9/19/18	Last Update				
79	calendar days until Senior Design Day				

DRI	Task	Dur	Start	End	Status
Clayton Mulli	Partition SOW, compile info to form rough draft.	5	9/12/18	9/17/18	In progress
Levi Stalswor	Project Scope	5	9/12/18	9/17/18	In progress
Clayton Mulli	Sponsor support elements	5	9/12/18	9/17/18	In progress
Patrick Caser	Product Scope	5	9/12/18	9/17/18	In progress
Heron Salinas	Buisiness Need	5	9/12/18	9/17/18	In progress
Clayton Mulli	Level 1 Project Proposal	4	9/17/18	9/21/18	Not Started
Clayton Mulli	Functional Spec	7	9/24/18	10/1/18	Not Started
		7	9/17/18	9/24/18	Not Started
		7	9/24/18	10/1/18	Not Started
		7	10/1/18	10/8/18	Not Started
		7	10/8/18	10/15/18	Not Started
		7	10/15/18	10/22/18	Not Started
		7	10/22/18	10/29/18	Not Started
		7	10/29/18	11/5/18	Not Started
		7	11/5/18	11/12/18	Not Started
		7	11/12/18	11/19/18	Not Started
		2	11/19/18	11/21/18	Not Started
	Thanksgiving Break	5	11/21/18	11/26/18	
	Finalize Poster	4	11/26/18	11/30/18	Not Started
	Print Poster, Finalize Display	7	11/30/18	12/7/18	Not Started
	Senior Design Day	0	12/7/18	12/7/18	