Incubator for Infant Wildlife (Wildlife Incubator Team) BME 402

Client: Dr. Mark Stelford
Advisor: Dr. Walter Block
Team: Tanishka Sheth (Leader + Communicator) - tsheth@wisc.edu
        Loukia Agoudemos (BPAC) - lagoudemos@wisc.edu
        Sophia Finn (BWIG) - svfinn@wisc.edu
        Erwin Cruz (BPAG) - ecruz9@wisc.edu
Date: 3/5-4/11

Problem statement

Wildlife rehabilitation often includes caring for neonatal wildlife who are unable to control their own body temperature, thus the incubator must provide supplemental temperature control. Although private parties frequently contribute to wildlife rehabilitation efforts, they do not have enough financial resources to purchase an incubator. As such the wildlife incubator must be low-cost, durable, modular, easy to clean, and precise in temperature control. It is essential to create an incubator that is more accessible and accommodating for those interested and passionate about wildlife rehabilitation but may lack the financial resources to purchase components currently available in the market.

Brief status update

The team has started testing the circuit elements.

Difficulties / advice requests

N/A

Materials and expenses

Item	Description	Manufac-turer	Mft Pt#	Vendor	Vendor Cat#	Date	#	Cost Each	Total	Link
Category 1										
									$0.00	
									$0.00	
Category 2										

			$0.00	
			$0.00	
			TOTAL:	**$0.00**

Major team goals for the next week

1. Testing of the circuit and shell together

Next week's individual goals

- Tanishka:
  - Continue testing and identifying the best P I and D constants for the circuit
- Loukia:
  - Continue testing
  - Work on finalizing pcb design
- Sophia:
  - Retrieve testing data.
  - Install new shell components to optimize stability and visual appeal.
- Erwin:
  - Continue testing

Timeline

Task	Jan 26	Feb 2	Feb 9	Feb 16	Feb 23	March 1	March 8	March 15	March 22	March 29	April 5	April 12	April 19	April 26	May 3	May 10
Project R&D																
Designing	X	X	X	X	X	X	X	X	X		X					
Prototyping				X	X	X	X	X	X		X					
Testing											X					
Feedback																
Deliverables																
Progress Reports	X	X	X	X	X	X	X	X	X		X					
Prelim presentation			X													
Final Poster																
Meetings																
Client																
Advisor	X	X	X	X	X		X				X					
Website																
Update	X	X	X	X	X	X	X	X	X		X					

Previous week's goals and accomplishments

- Team:
  - The team has started testing the circuit
- Tanishka:
  - Began testing the circuit
- Loukia:
  - Started work on the pcb

- Sophia:
  - Begun circuit testing. Finished exterior shell testing.
  - Bought materials to upgrade shell.
- Erwin:
  - Began testing

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Tanishka Sheth	4/5-4/11	Began testing of the circuit with different values for P I and D	2.5	2.5	20
Loukia Agoudemos	4/5-4/11	Began testing	2	2	20
Erwin Cruz	4/5-4/11	Began testing	2	3	14
Sophia Finn	4/5-4/11	Began testing	2	2	15.5