

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

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Date: 4/12-4/18

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:
 - Finalize the poster for presentation
- Loukia:
 - Finalize the poster for presentation
 - Finalize the prototype and get PCB ready to be shipped
- Sophia:
 - Finalize poster for presentation
- Erwin:
 - Finalize the poster for presentation
 - Finish testing

Timeline

Task	Jan	Feb				March					April				May	
	26	2	9	16	23	1	8	15	22	29	5	12	19	26	3	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					

Filled boxes = projected timeline

X = task was worked on or completed

Previous week's goals and accomplishments

- Team:
 - The team has acquired testing data
- Tanishka:
 - Testing elements
- Loukia:
 - Working on getting PCB of the circuit
- Sophia:
 - Working on element testing
- Erwin:
 - Worked on testing elements
 - Researched perfboards

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Tanishka Sheth	4/12-4/18	testing of the circuit with different values for P I and D	2	2	22
Loukia Agoudemos	4/12	Working getting PCB of the circuit	1	1	21
Erwin Cruz	4/12-4/18	Researched perfboards	1	2	17
Sophia Finn	4/12-4/18	Testing the circuit	2	2	17.5