

BME Design: Progress reports

VET Stand: Adjustable bite block assembly for radiation therapy for pet

Date: October 1, 2026 - October 8, 2026

Client: Dr. James Sohn

Advisor: Prof. Randy Bartels

Team Members:

Norah Greer (njgreer2@wisc.edu) - Co-Leader

Cole Hwang (nahwang@wisc.edu) - Co-Leader

Zhien Luo (zluo244@wisc.edu) - Communicator

Bridget Jensen - (bcjensen2@wisc.edu) - BSAC

Ethan Abitz - (eabitz@wisc.edu) - BWIG

Isabel Hillwalker - (hillwalker@wisc.edu) - BPAG

Problem statement

Veterinary radiation oncology requires dogs and cats to undergo sedation during every treatment session. A common tool used to secure an anesthesia delivery hose and hold the animal's head still is a bite block, however, common bite blocks are cumbersome and lack adjustability. This project aims to create an adaptable bite block with a wide range of widths and heights, allowing technicians to precisely and repeatedly position the block for each patient over multiple treatment sessions.

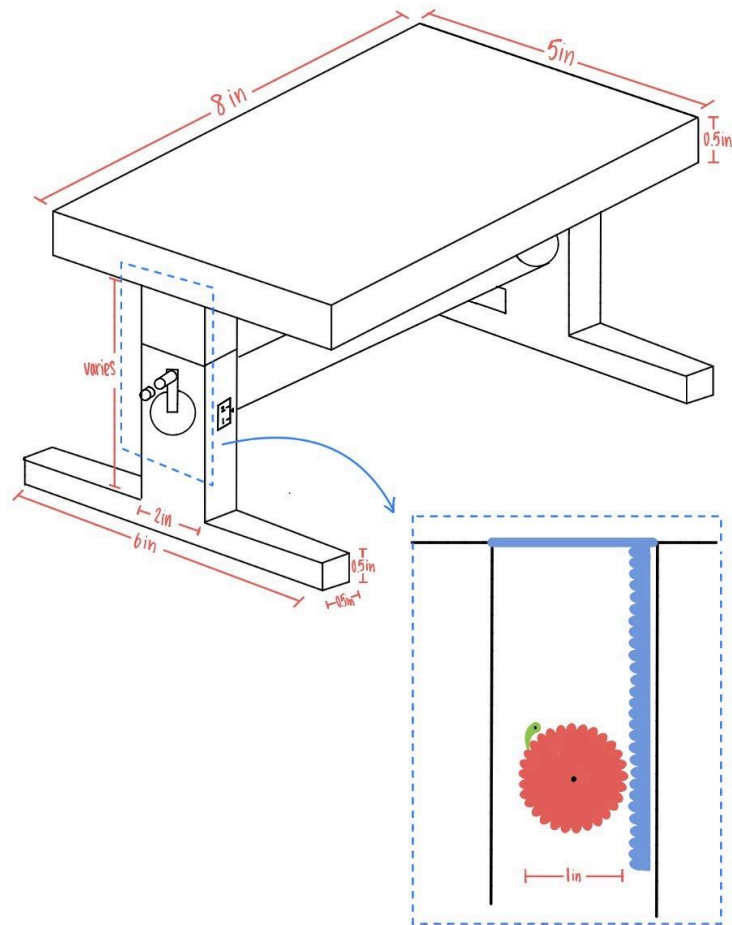
Brief status update

The team prepared a preliminary report and presentation to detail the background, designs, testing and future work they have planned for the project so far.

Difficulties / advice requests

None at this time

Current design



Materials and expenses

Item	Description	Manufacturer	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	

Goals

Major team goals for the next week

1. Manufacture prototype
2. Create testing plans

Next week's individual goals

- Norah Greer
 - Help with making our final design in CAD
- Cole Hwang
 - Work on making designs on CAD
- Zhien Luo
 - Work on a 3D prototype on CAD
- Bridget Jensen
 - Start prototyping and decide on a bite block design
- Ethan Abitz
 - .Start prototyping and help with testing
- Isabel Hillwalker
 - Start prototyping, talk about biteblock design ideas

Timeline

Task	Aug	Sep					Oct				Nov					Dec	
	31	7	14	21	28	5	12	19	26	2	9	16	23	30	3	10	
Project R&D																	
Empathize																	
Background...																	
Prototyping																	
Testings																	
Deliverables																	
Progress Reports																	
Prelim presentation																	
Final Poster																	
Meetings																	
Client																	
Advisor																	
Website																	
Update																	

Filled boxes = projected timeline

X = task was worked on or completed

Detailed accomplishments

Previous week's goals and accomplishments

- Norah Greer
 - Begin CAD modelling of final design, try to create and initial prototype
- Cole Hwang
 - Begin working on the cad for design, start working on the preliminary report..
- Zhien Luo
 - Begin working on the CAD for design, and researching future works.
- Bridget Jensen
 - Work on the preliminary report and researching more standards
- Ethan Abitz
 - Work on preliminary report, assist in creating prototype, think up testing plans
- Isabel Hillwalker
 - Start work on prelim report, research standards

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Cole Hwang	10/6/26 10/7/26	Team Meeting Work on Preliminary report	1 1.5	2.5	13
Norah Greer	10/5/26	Worked on Preliminary Report	2	2	12.5
Ethan Abitz	10/5/26 10/7/26	Worked on preliminary report Team Meeting	1.5 2	3.5	14
Zhien Luo	10/5/26	Worked on Preliminary Report	2	2	13
Bridget Jensen	10/6/26 10/6/26	Worked on preliminary report Team Meeting	1 1	2	14
Isabel Hillwalker	10/4/26 10/5/26	Work on prelim report Work on prelim report	1 2	3	13

