

Project Title: Redesigning intramedullary rod surgical instruments used for canine long bone fracture repair

Team Members:

Erik Yusko – Leader
Danielle Ebben – Communications
Tony Wampole – BSAC
Anna Moeller – BSAC
Jon Sass – BWIG

Client:

Tass Dueland, DVM
UW Veterinary School
email: duelandt@svm.vetmed.wisc.edu

Professor Ray Vanderby, Jr.
UW Biomedical Engineering and others
email: vanderby@orthorehab.wisc.edu

Date: 11/10/05 – 11/17/05

Problem Statement: Improve the design of an intramedullary rod to fix canine long bone fractures. Specifically a device enabling surgeons to consistently drill to the screw holes in the nails without missing.

Individual Goals:

Erik – Continue to adapt drawings such that specifications are real world. Machine
Danielle – machine on the lathe
Tony – machining on the CNC, BSAC
Anna – machining on the CNC and lathe, BSAC
Jon – machining on the CNC, BWIG

Summary of Accomplishments: The nails component has been completed. The top unit is nearing completion and should be done by the end of the week.

Statement of Team Goals: We hope to have all machining done by the end of the week or early next week at the latest. The top unit and the nails need to be welded together and hope to have those done by the week of November 28th. We hope to begin working on the lay out of our final poster presentation.

Rough Project Schedule:

9/9/05: Met with Client
9/16/05: Developed a fluid PDS document and began brainstorming
9/16/05-9/30/05: Evaluated brainstormed ideas. Beginning mid-semester presentation and report.
10/14/05: Presented Midsemester presentations
10/14/05-11/18/05: Build and finalize a prototype or design plans.
11/18/05-12/2/05: Test prototype, produce final poster presentation & report.
12/2/05: Final Poster Presentations
12/7/05: Final report due.

Difficulties: None at the moment.

Activities week to date:

Team meetings regarding: manufacturing

Erik – meetings, specifications, force analysis	10 hours
Danielle –notebook, machine shop	9.5 hours
Tony – notebook, machine shop, BSAC	4 hours
Anna – notebook, machine shop, BSAC	10 hours
Jon – notebook, machine shop, BWIG	3.5 hours

Running Total:

Name:	Hours:
Erik	55
Danielle	42.5
Tony	34.5
Anna	42
Jon	32.5