# MegaWatt Class Laser Cat (MCLC) Project Weekly Progress Report

Report date: 2022-01-15

* **Last Week (times in hours)**
  + Team Review
    - We made good progress this week on finding our laser and figuring out how to power it. Still writing the Project Proposal and still trying to figure out where to get 20 MW (@ 24kV) on campus.
  + Team member 1
    - Edited project proposal (4)
    - Ordered breadboard prototypes (1.5)
    - Met with Andrew to discuss the design of our MW-class laser (2)
    - Set up our collaboration site on Github and added structure (3)
  + Team member 2
    - Started investigating how to mount laser on to a standard house cat (2.5)
    - Wrote mechanical design plan for proposal (1.5)
    - Chose OnShape as our MCAD tool and started designs (4)
  + Team member 3
    - Began coding strawman / prototype based on an Arduino platform (for now) (5)
    - Brainstormed and documented ways to read cat’s brain waves in order to fire laser. (6)
  + Team member 4
    - Investigated regulatory compliance and safety measures for MW lasers (2.5)
    - Contacted local humane society to see if we can borrow a cat (0.5)
    - Got sick; had to cut short my hours this week
* **Next week**
  + Team Plan
    - Finish the rough draft of our project proposal and send to industry sponsor for feedback.
    - More basic research into CONOPS, house cats, and adding lasers
  + Team member 1
    - Design MW class power supply (5)
    - Find 24 kV power supply in EB (2)
    - Meet with PSU Environmental Health and Safety to figure out safety plan (3)
  + Team member 2
    - On vacation; won’t get anything done (sorry!)
  + …
* **Blocked**
  + Team member 1
    - Need money from sponsor before purchasing laser
    - Need a safety plan (not my job - who?)
  + Team member 2
    - Not an ME - can I get help on OnShape?
    - How do you even strap 150 kg laser to a house cat? Do we need an exoskeleton?
  + Team member 3
    - Nothing blocked
  + ….

# IMPORTANT NOTES ON WPRs

* **The WPR is important because it shows what you’ve accomplished, and what your plan is. It shows how you broke the work up, and who did the work. It should show when team members were out sick, had to put in less hours because of life event, or put in extra hours.**
* Strongly recommend you put in the honest amount of time you spent on tasks, and estimates for future tasks. Don’t bother with anything less than 0.25 hours.
* Each entry should be concise (short) and contain details on what you did, what you’re going to do, and what’s blocking you.
  + Be specific! Be detailed! Be goal oriented!
  + Examples:
    - BAD: “Worked on CAD” is too wishy washy.
    - GOOD: “Finished preliminary schematic for laser power supply”
    - BAD: “Debug PCB” is too vague.
    - GOOD: “Debug laser PCB, at least the power supply and controller”

**Here’s a template for you to customize and use on a weekly basis. I suggest keeping one document with all of your notes, but how you do it is up to your team.**

# [Capstone Project] Weekly Progress Report

Report date: [DATE]

* **Last Week (time in hours)**
  + Team Review
  + Team member 1
  + Team member 2
  + Team member 3
  + Team member 4
* **Next week**
  + Team Plan
  + Team member 1
  + Team member 2
  + Team member 3
  + Team member 4
* **Blocked**
  + Team Blocks
  + Team member 1
  + Team member 2
  + Team member 3
  + Team member 4