

# Internship 2022

## Personal Progress Report

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17/02/2022 - 23/02/2022

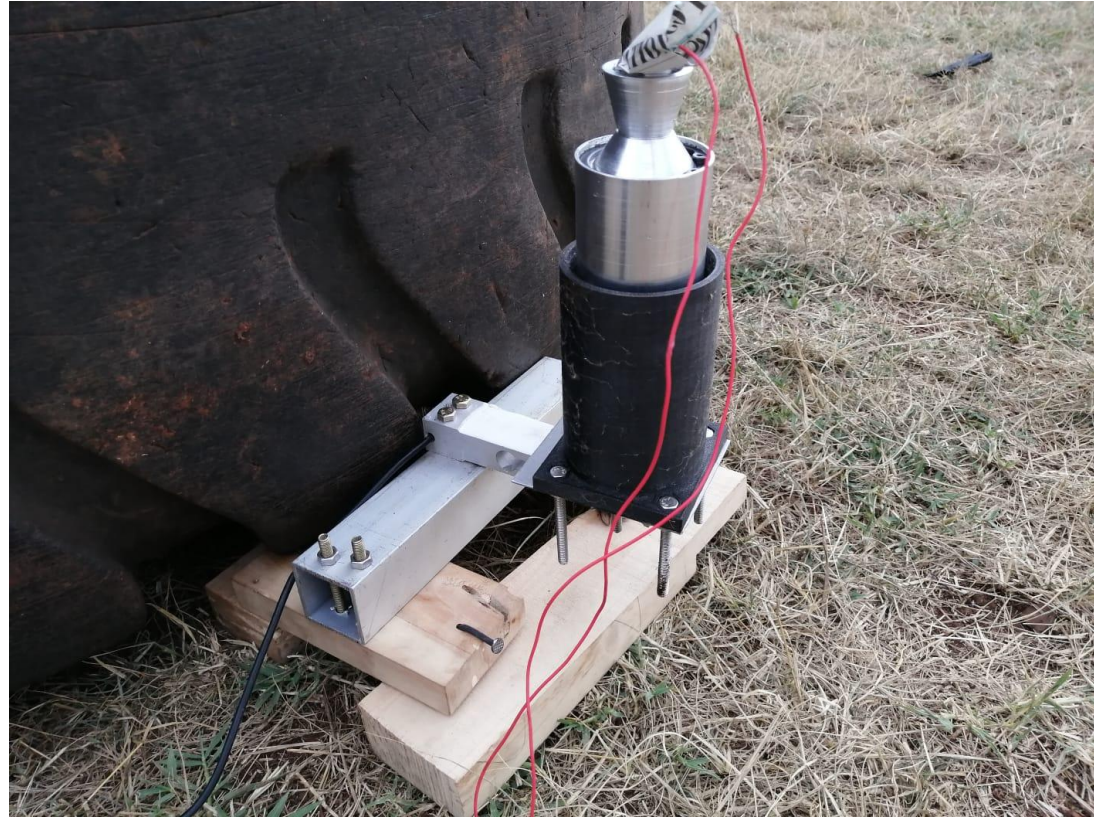
# Tasks completed last week

- [#19] Static Test #1
- [#86] Fabricate snap rings groove
- [#87] Modify bulkhead to fit snap rings
- [#32] Test stand PCB Design

# STATIC TEST #1

## Report

1. Too long and slow burn due to moisture content
2. Unreliable igniters
3. Data logging to raspberry pi was not successful
4. Implement wireless ignition



# SNAP RINGS GROOVE ON CASING

The snap rings fit perfectly, performing well during the static firing test.



# BULKHEAD MODIFICATION

The bulkhead was modified to enable it to fit below the snap ring for fastening

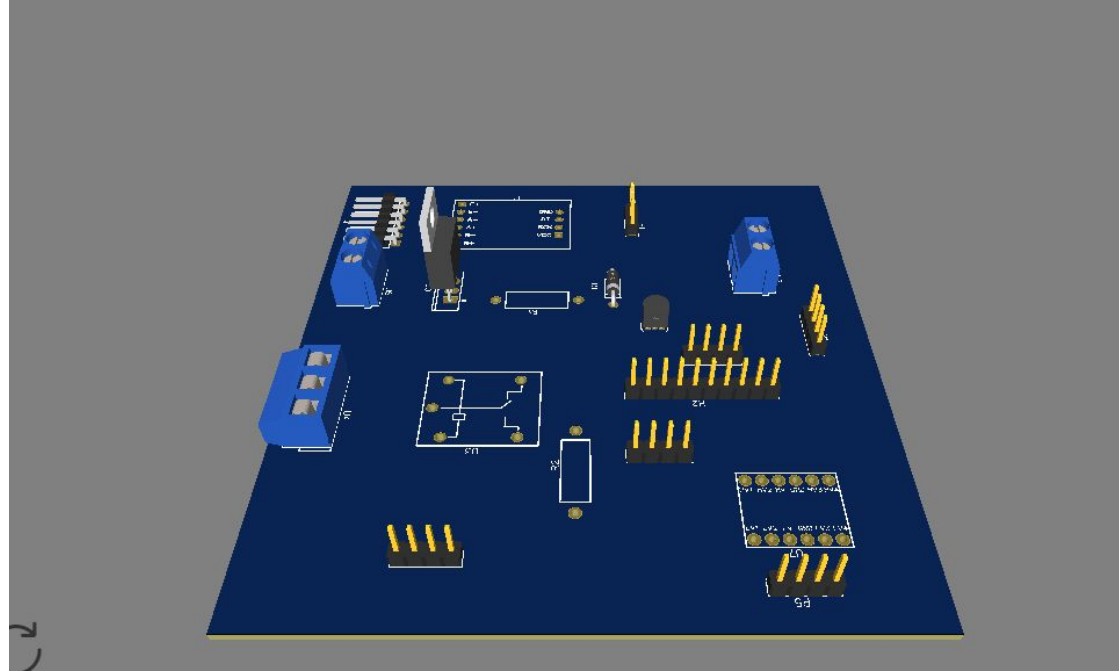


# TEST STAND PCB DESIGN

Designs were made;

Design 1, 2 & 3 all failed.

Design 4 is complete,  
etching in progress



# Tasks in this week

- [#71] Casing Fabrication [In progress]
- [#97] Data Fetcher - Test Stand
- [#19] Static Firing Tests #2 & #3
- [#32] Test stand PCB Etching
- [#68] Igniters improvement
- [#98] Temperature & Pressure measurement during static testing
- [#99] Camera mount for test stand

# Timeline

Month	Intern week	Tasks
Jan		
	Week 1	Designs [Fuel, Casing, Nozzle, Bulkhead, Casting tools, Test stand]
	Week 2	Fabrication of items
	Week 3	Fuel Fabrication and test stand revamp
Feb	Week 4	Fabrication of items & Fuel casting
	Week 5	Iterative Fuel tests
	Week 6	Launch Pad design and iterative fuel tests
	Week 7	Iterative fuel testing and improvement