

Internship 2022

Personal Progress Report

Name: Washington Kamadi

09/02/2022 - 16/02/2022

Tasks completed last week

- [#71] Casing V1 Fabrication
- [#36] O rings purchase
- [#57] Snap rings purchase
- [#88] Ejection Charge testing
- [#11] Casting tools fabrication
- [#56] Fuel Casting

CASING V1 FABRICATION

Casing 1 fabrication complete.

Fabricated at the machine shop



O-RINGS AND SNAP RINGS

O-RINGS serve as pressure seals

Snap Rings serve as retainers instead of using bolts



EJECTION CHARGE

The ejection charge, made from Crimson Powder was tested and it performed excellently.



CASTING TOOLS FABRICATION

Fabrication in progress



Tasks in this week

- [#19] Static Test #1
- [#86] Fabricate snap rings groove
- [#87] Modify bulkhead to fit snap rings
- [#11] Continue casting tools fabrication

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