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# NAKUJA INTERNSHIP

## — WEEK 14 PROGRESS REPORT —

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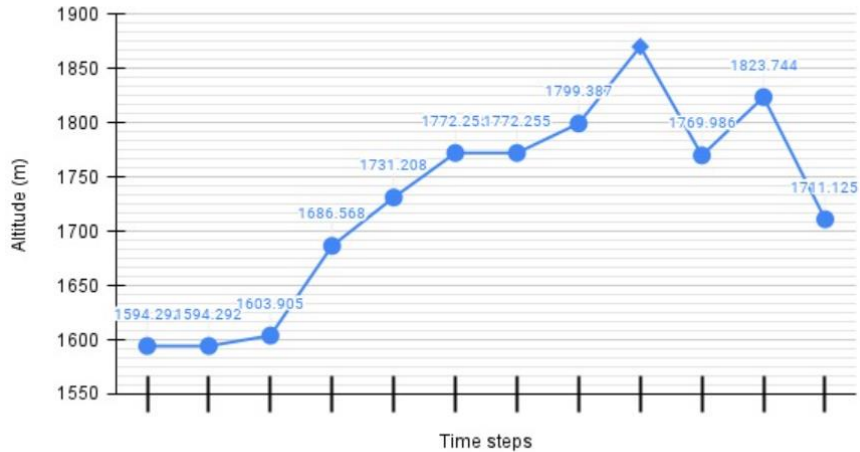
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# TASKS COMPLETED THIS WEEK

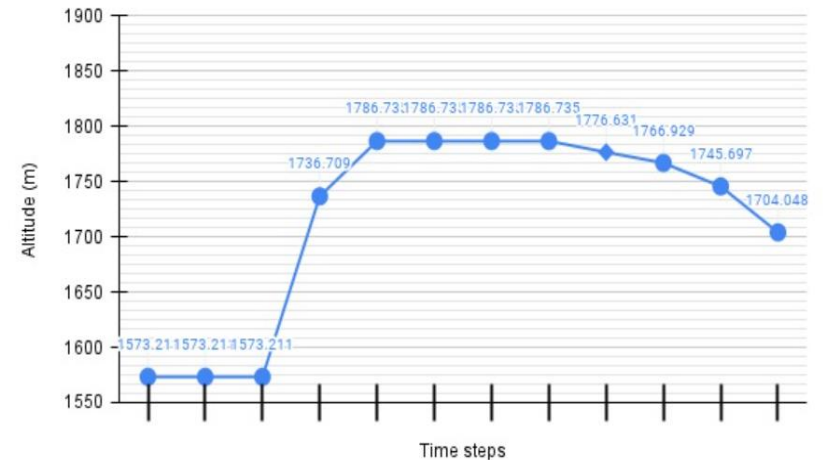
- [#108] Remote Ignition
- [#36] Snap Ring Purchase
- [#56] Fuel Casting for Test Flight
- [#150] Test Flight

# [#150] TEST FLIGHT

## FILTERED ALTITUDE



## SENSOR ALTITUDE



Attained Apogee = 280 m



# THE AFTERMATH



Bulk-head side

The engine block remained intact, both sides of the engine where bolted to the airframe.



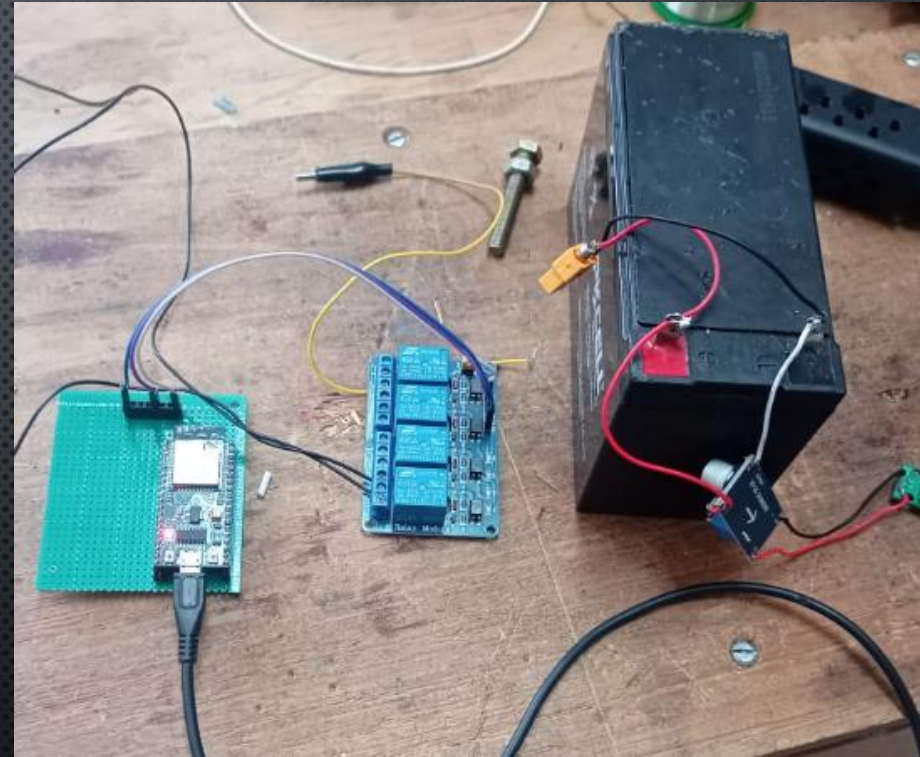
Nozzle side

# REMOTE IGNITION USING ESP32 MODULE

Using ESP32 NODE-MCU module

Libraries utilized

- Async TCP Library for ESP32
- ESPAsyncWebServer





# TASKS THIS WEEK

- [#71] Casing Fabrication
- [#] Purchase of Sorbitol

# TIMELINE

Month	Intern week	Tasks
Jan		
	Week 1	Designs [Fuel, Casing, Nozzle, Bulkhead, Casting tools, Teststand]
	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