
NAKUJA INTERNSHIP

— WEEK 11 PROGRESS REPORT —

TASKS COMPLETED THIS WEEK

- [#71] Casing Fabrication
- [#56] Fuel Casting
- [#68] Ignition testing
- [#151] Launch pad fabrication
- [#32] Test stand PCB Design
- [#33] Test stand PCB Etching

#71 Casing fabrication



We fabricated another casing to be used for the test launch on Thursday.

Fuel Casting



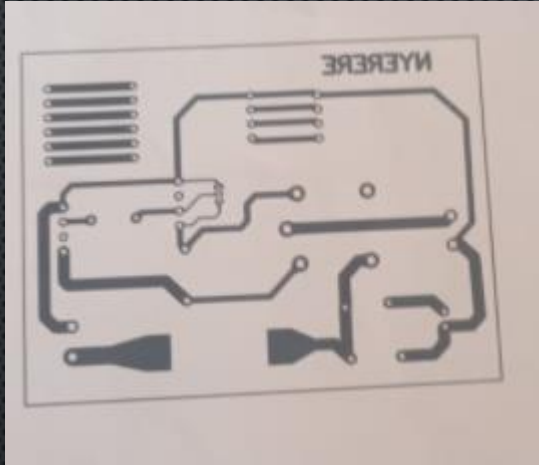
We prepared a single grain of fuel. The mixing ratio was 67:33 potassium nitrate to sorbitol, 5g of iron oxide. Fuel was cast directly to casing. The single grain will be used for the test launch tomorrow.

LAUNCH PAD FABRICATION



We fabricated the launch pad with an adjustable launch angle of 0-45 degrees

Etched Test Stand PCB



Another test stand PCB was designed, etched and soldered.



TASKS THIS WEEK

- [#150] Test Flight

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