

Internship 2022

Personal Progress Report

Name: Washington Kamadi

02/02/2022 - 09/02/2022

Tasks completed last week

- [#64] Test stand fabrication
- [#52] Nozzle fabrication

NOZZLE FABRICATION

An optimum nozzle

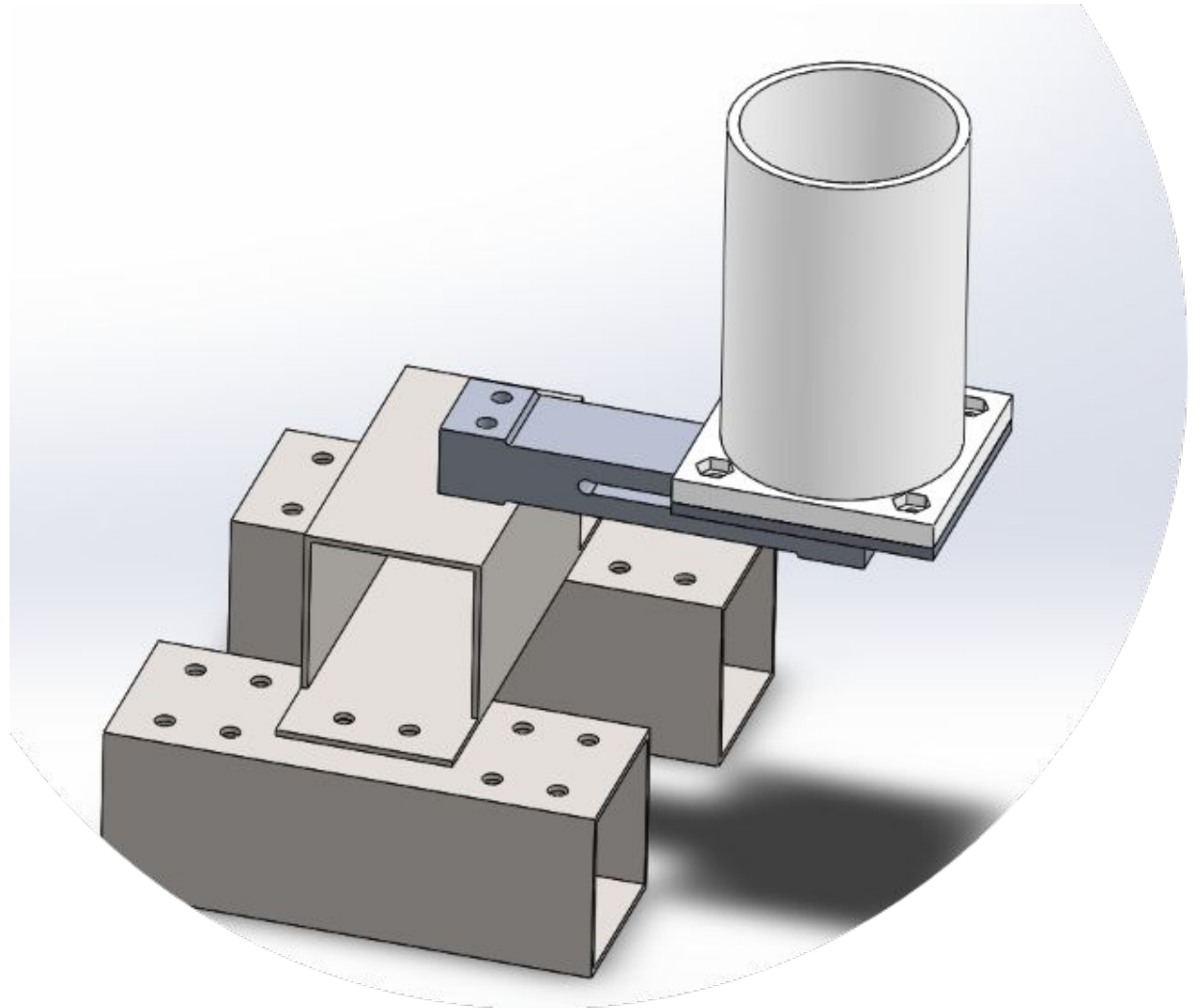
Throat diameter - 12mm

Convergence half angle - 35 deg

Divergence half angle - 15 deg



Test stand Modified design

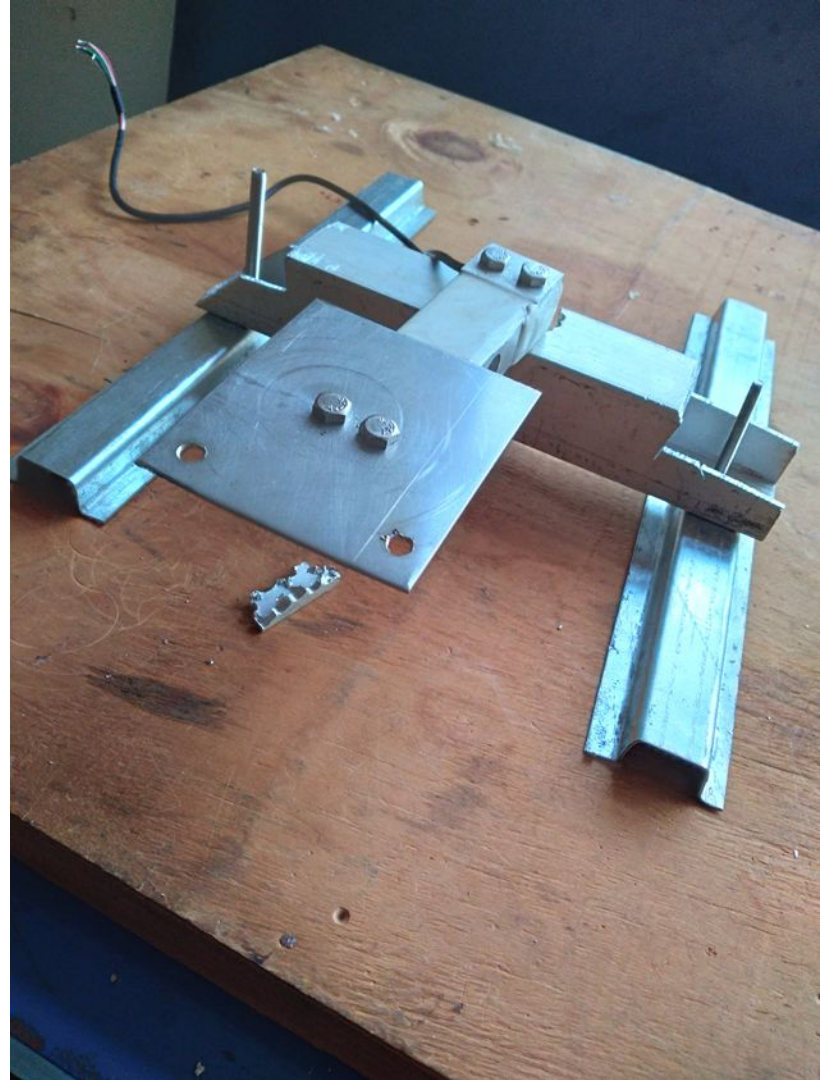


TEST STAND FABRICATION

3D Printing of clamp in progress

Completes on Thursday

Amplifier modification - 80Hz data
sampling frequency



Tasks in this week

- [#19] Static Test #1
- [#11] Casting tools fabrication
- [#56] Fuel Casting
- [#57] Research on the use of snap rings

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