GNG 1103F-
Winter 2024
University of Ottawa
Deliverable I

Breaking Good
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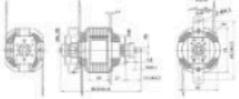# 3 min pitch presentation

Results

Price

Material	Price $
Bolt, screw, washer, nut	3.88
Juice Jug	2.50
Hamilton Beach Blender	28
Acrylic	7
flexseal	22
Abrasive	14

Only 77.38$ 22.62$ under budget

BREAKING

Good
Erosion -----> System

Isometric image of the photo

TESTS

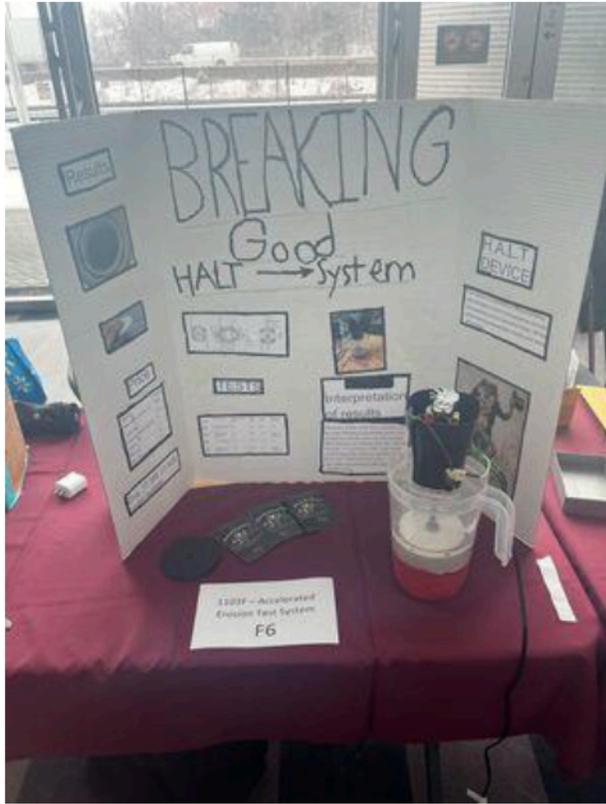| sample	Type of slurry	Accumulative time	Initial mass	Final mass	Observed scrations
White PLA	Control (water)	2h	36.7	36.7	none
White PLA	90/80 silicone carbonate	2h	36,8	36,8	Small scratches
Black PLA	Control (water)	2h	37.8	37.8	none
black PLA	90/80 silicone carbonate	2h	37.8	37.8	Small scratches

Interpretation of results

Team breaking good found a unique way to measure erosion through measuring how many white specs are left in the slurry mixture.

Thoughts of this technology for the future

Soon we may be able to test stronger materials not off of weight difference of the central sample but of how much rubbed off at the bottom of the H.A.L.T system.

Design

Plan for presentation

Person 1

- Introduction
- Benchmarking
- Main prototype

Person 2

- Explain main prototype
- Explain results
- Mention the price
- Turn it on and show them how it runs.

(our plan was too do the presentation off of these notes for 2 people

Question preparation

 "So What?".

Our prototype is 22$ under budget and can yield actual results, which can be measured by the amount of white specs rub off into the black abrasive. With this strategy one can measure results qualitatively without actually needing to measure the wright before and after.

 2. "Who Cares?".

Any company who wants a cheap and easy to use way of testing the erosion on a substance will care.

3. "Why you?"

Our prototype is 22$ under budget only 78$ and yielded actual results from a solid sample, which is probably one of the best price to effectiveness ratio in our entire class.

Trello

https://trello.com/invite/b/D74MvsJy/ATTlf8fe314234d95033ddb1ac8bbec2bfd9246D7BBB/breaking-good