

ABIGAIL

INTRODUCTIONS

AFTER LELVI

Hi, I'm Abigail, I like building attachments and having fun with friends.

ABIGAIL TURNS POSTER AFTER JESSE FINISHES INTRODUCTION

PROJECT SPARK

AFTER ELIJAH

OUR SOLUTION: A Healthy Fuel System

A Healthy Fuel System monitors the fuel by taking samples & readings of the health & levels of the fuel.

The sensor is looking for the following contaminants:

- chemical breakdown (Fuel chemicals not in their best state)
- fuel separation (Fuel starts to settle with sediment at the bottom)
- water (which turns into steam which is noncondensable and can ruin a generator by the rust)
- biofilm growth (sludge up your generator)
- lack of fuel additive (which causes fuel to gel in cold weather situations)

LEVI TURNS POSTER AFTER ELIJAH ASKS IF THE JUDGES HAVE QUESTIONS & THEY FINISH ASKING QUESTIONS.

ROBOT DESIGN

AFTER LEVI

We staggered the motors one high & one low so that it's easier the attachments on and take off. It also helps so they don't get tangled together. Our favorite attachment we built is this one, it is for the toy factory and it is a passive attachment that doesn't use any motors.

MISSION STRATEGIST

AFTER JESSE

Building the attachments was sometimes a real challenge. We had to learn about how speed and force are affected by the length of the attachment and how far away the motor to the action it was trying to do.

JESSE TURNS POSTER AFTER MAGGIE SAYS...built a new attachment that does 2 missions.

CODING:

AFTER JESSICA

After that, we discovered the Gyro Sensor. We made a MY BLOCK to program the Gyro Sensor. In the My Block there are 3 variables we edit for a good turn; what angle we need to turn to, what port the gyro sensor is in, and for how long.

CORE VALUES

AFTER LEVI

Innovation - Moving Forward.

FRUIT OF THE SPIRIT

AFTER JESSICA

Patience

ABOUT OUR TEAM

AFTER LEVI

Our little siblings were around for all the meetings. We were good at showing them about robotics & soon found them doing their own little block competitions at the meetings.

**AFTER ELIJAH & JESSICA SAY D A
BOTTTS!**