



Team Information Sheet

Re:
IE11.18

FLL Team Number:

39061

Team Name:

Valley Park Bots

School:

Valley Park
Middle School

Team Members:

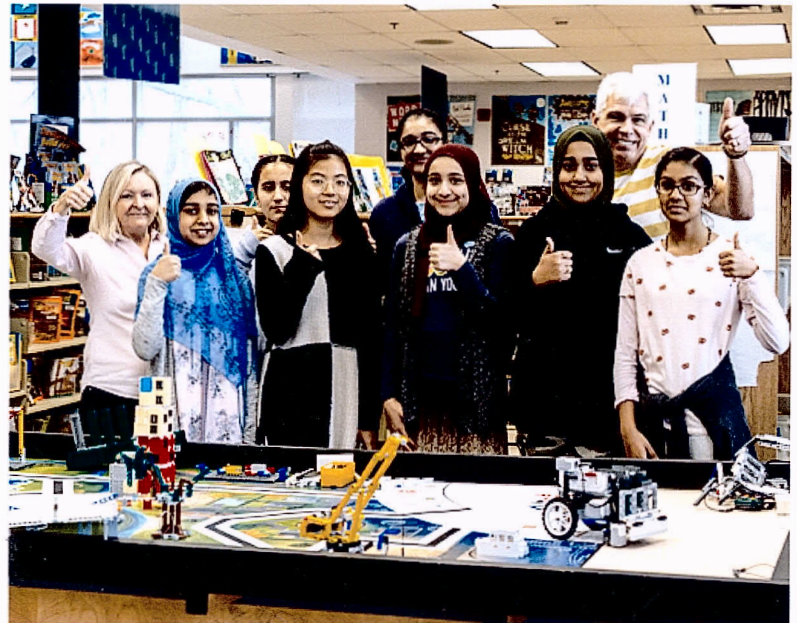
Elisha Joo
Aysha Afzaal
Elisha Qaisar
Muzhgan Salangi
Aamena Koya
Selvahini Kamalarajan
Fatima Qureshi

Coaches:

Elizabeth Galli
John Loach

Robot's Name:

Road Repair Robot



Robot Design Information

This is our second year with FLL. We redesigned our robot to be much more compact and sturdy, used bigger wheels for higher speed, and incorporated a much better 'On and Off' system for attachments. We built MyBlocks with acceleration, deceleration and PID loops to increase our motion accuracy.

Core Values Information

Last year we really tried to get to know each other, and practiced ways to work together toward our goals. This year, we lost a few members and added a couple more. We're really happy with how we support each other. We try to include everyone equally and listen constructively to each other.

We have provided Robot Design supporting materials --- No

We have provided Research Project supporting materials --- No

We would like our presentation materials returned to us --- No thank you!

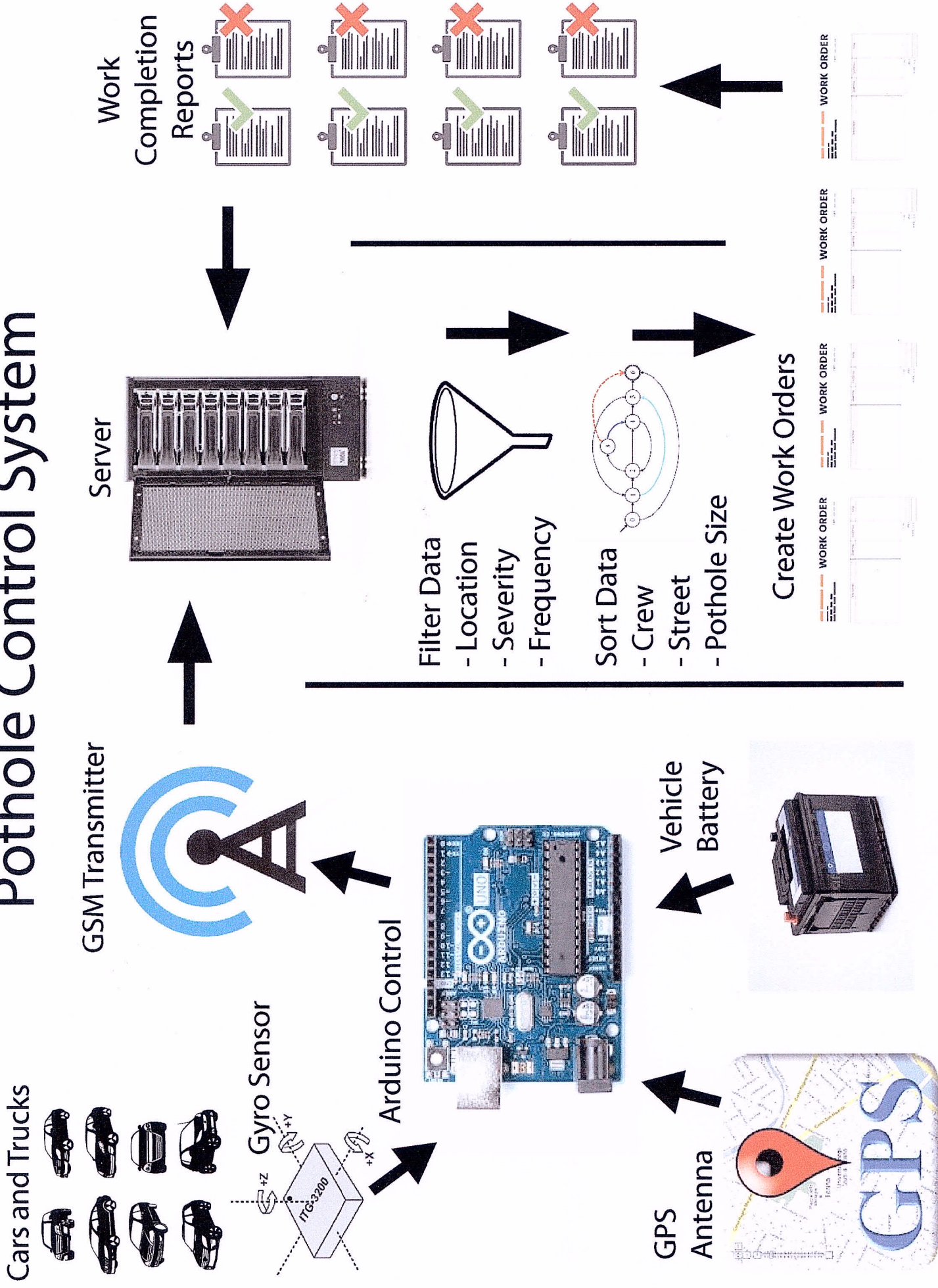
Project Information

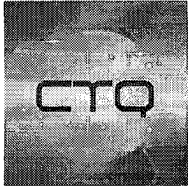
This year we wanted to be much more innovative, and came up with an idea that is practical and possibly justifiable. Our 'Pothole Control System' has the potential to save a city like Toronto about \$1 million per year! We even designed an EV3 mockup to demonstrate how it works!

Fun Facts About Our Team

We rarely get a chance to be all together. Time after school is never available, but we met almost EVERY morning at 8:00 in the library with Ms. Galli. We learned how to be committed, because early mornings are DIFFICULT!!!!

Pothole Control System



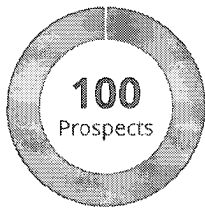


Smart DigiTech Application Solutions for the government, private and non-profit sectors to make Toronto a Smart Community, a Smart City

Our Opportunity

Problem worth solving

The City of Toronto has repaired around 200K potholes last year and It cost the city millions of dollars each year to fix the potholes. There is extra labor, cost, time wastage and on top Canada's extreme weather makes the Pothole tracking even hard



Market size: \$5M

Target market

■ City of Toronto 100% (\$5M)

Our solution

Our Intelligent Pothole tracking Application will use geolocation coordinates and pothole data from the sensors installed in cars and analyze and report to the City. So the severe and most frequent potholes can be fixed on a priority basis.

Competitors

Tesla

Google

How our solution is better

Customized, Intelligent Reporting

Customized, Intelligent Reporting

Funding needed

\$ 50K

We will use these funds for the development of Intelligent Pothole Tracking Application and Prototype and hire the whole Teenpreneurs Team.

Team and Key Roles



Fatima Hasan

Founder, CEO Canada TechQ

Fatima is an innovative future-focussed entrepreneur with expertise in business acumen, project, and process management



Valley Park Bots Team and Coaches

Innovators

Teenpreneurs and their coaches are Robotic Enthusiastic and innovators.

Partners and Resources



IBM



Microsoft



AWS



GoogleAPI