

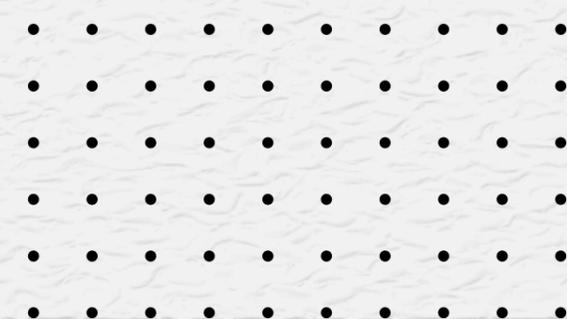
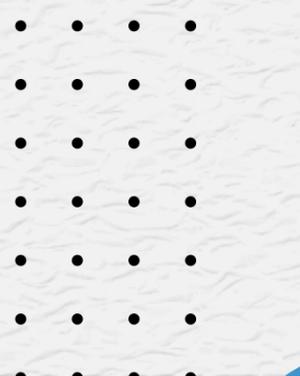


FIRST LEGO LEAGUE

The Stampations

OUR TEAM

We are the Stampsations, a dedicated group of friends and students from Fallingbrook Middle School. We successfully advanced to the international level in the First Lego League Competition(FLL).



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★ WHAT IS ★ FLL?



FIRST LEGO League (FLL) introduces STEM topics to kids from Grades 4 to 8 through fun, and exciting hands-on learning.

FLL participants engage in research, problem-solving, coding, engineering building and programming.

As part of the challenge, teams also participate in a research project to identify and solve a relevant real-world problem.

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★CORE★

VALUES

Teams express the FIRST philosophies of Gracious Professionalism and Coopertition through our Core Values.

Discovery: We explore new skills and ideas.

Innovation: We use creativity and persistence to solve problems.

Impact: We apply what we learn to improve our world.

Inclusion: We respect each other and embrace our differences.

Teamwork: We are stronger when we work together.

Fun: We enjoy and celebrate what we do!

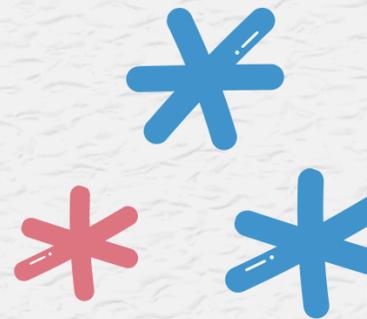
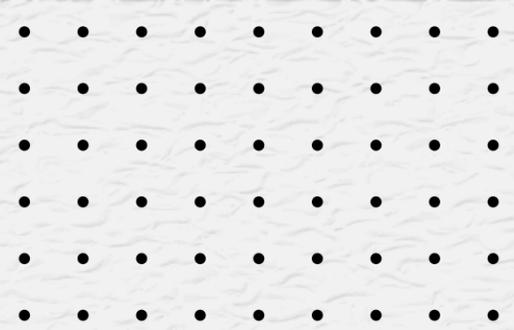
INNOVATION

PROJECT



As part of every FLL season, students create innovation projects, where they use critical thinking and innovation to solve problems through:

- collaboration
- application of engineering design principles
- consultation with experts and users
- application of STEM knowledge
- lots of FUN



THE ROBOT GAME



- Students design, build, and program LEGO robots
- Teams complete themed missions and collect points
- Robots are judged on design, programming, execution, and adherence to FLL Core Values

2023 / 2024

THEME

MASTERPIECE



This year's FLL innovation prompt:

“How can you use technology and the arts to help engage others or increase participation in what you love to do?”

OUR PROJECT

- Our innovation project revolves around reviving stamp collecting and improving peoples' health
- Our idea puts a virtual spin on stamp collecting
- Users can walk around their community collecting stamps and learning about the stamp's history



stamp**s**ations

OUR PROJECT

- Our project is an app designed to replicate stamp collecting
- It is made with Unity and C#
- It uses AR
- It also has features to share your own stamps with the community



OUR ROBOT



- We worked together using digital software before the season started to design our robot, to try to achieve the most compact and efficient design.
- The robot is coded with a scratch-like language. In total, we have coded 10 runs that can complete every task on the table.
- We iterated many times on our code and design, and we had great fun throughout the entire process!

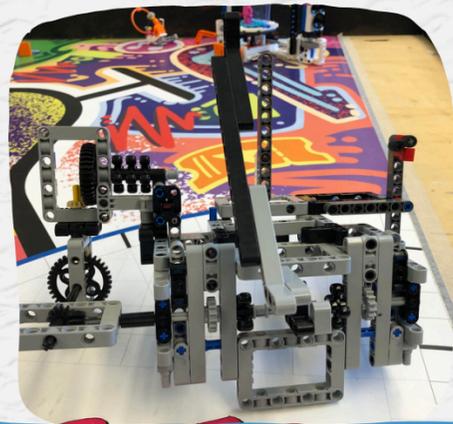
OUR ATTACHMENTS

Our robot uses modular attachments to complete tasks. Here are the three that we are the most proud of:



TRUSSIE

Trussie is the attachment used during the last run. This run gives us 130 points, the most out of any run.



NESSIE

Nessie is our most innovative attachment. It uses an inventive solution to complete the task much faster than normal.



BESSIE

Bessie is the attachment for the first run. It also completes tasks in an unconventional way.

★ OUR ★

JOURNEY

- Started FLL as a school project
- Began with the basics, like thinking of an idea and designing our robot
- Competed at Holy Name of Mary College School for regionals
- Won the Engineering Excellence Award
- Started working on FLL in our own time
- Won First Place Champions at Ontario Provincials West
- Competed in Bodø, Norway for the Open European Championship
- Competed against 50 teams from all over the world!

EUROPEAN OPEN CHAMPIONSHIP

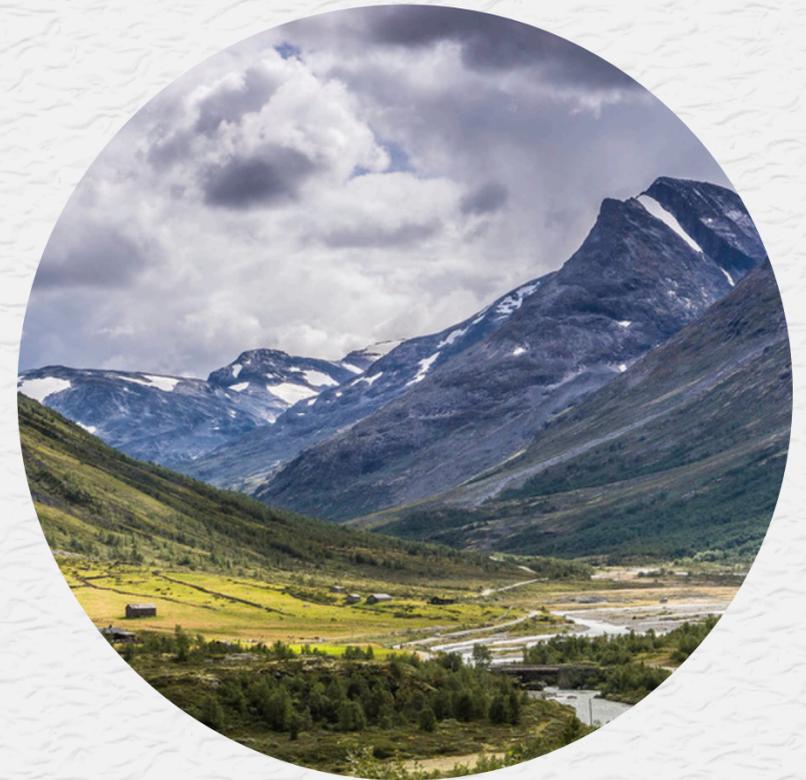
NORWAY

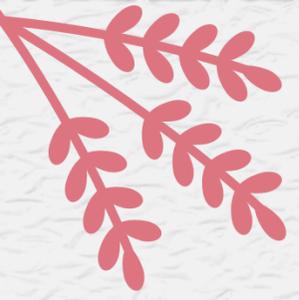


- The competition was held in 2 different specially set-up locations
- We competed against 50 teams - who were the best of the best from countries all around the world!!
- Through the competition, we met new people, learned new things, and had fun!
- We had an amazing time in Bodø, and it was a once in a lifetime experience!

MORE ABOUT NORWAY

- Hiked together, went for a boat trip around the city and mountains, and saw beautiful lakes
- Participated in the “Norwegian Constitution Parade”, and experienced local culture
- Food in Norway is great - lots of delicious fish, cheese, meat, and vegetables
- Scenic views and architecture make almost everywhere breathtaking





THANK



YOU

www.firstroboticscanada.org