Partnership Proposal

About us

LeXT was started with the goal to create a fun and creative space, that incorporates STEAM based educational curriculum's into children's daily routine. Students between the ages of 3-16 years old will build, design, and engineer LEGO solutions to real world problems. Throughout the process they are challenged to work on their teamwork, creativity, and critical thinking skills. "LeXT Robo Academy aims to inspire the creative minds of tomorrow through high quality curriculum and hands-on experience."

-Mission Statement

Our Curriculum

LeXT Robo Academy uses LEGO education concept and curriculum to provide a hands-on learning experience and fun environment for our students while developing their skills in science, technology, engineering, and mathematics. We are focused on four primary age groups. Those being the 3-4 ages, 5-6 ages, 7-8 ages, and finally, the 9+ group. Students between the ages of 3-16 years old will build and design the infrastructures using mechanical engineering principles and concept through engaging S.T.E.A.M. base activities and workshops. Throughout our sessions, we also teach scientific principles, the structure of an object, energy, knowledge of gears movement and fundamentals of robotics and programming including sound sensors and touch sensors.

Ages 3-4 Curriculum Details

Our Rookies Enginners have fun with several engaging and hands-on activities to develop their math and science skills. The classes are designed to be a fun and engaging way to teach our student mechanical engineering concepts by using LEGO® DUPLO® bricks to construct their own designs. Lessons in the 3-4 curriculum are meant to challenge young children to work on their building skills, hand eye coordination, and finger dexterity.

Sample lessons include: the fishing rod, a ball drop, and a model house.

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Ages 5-6 Curriculum Details

The Junior Engineers program continue giving child a foundation on physics and engineering principles. The classes are expanded with the implementation of gears and intricate gear systems. The class uses LEGO Duplo blocks which is an excellent medium to work on hand eye coordination and dexterity. The group also explores animal movement, exploration, transportation, and space! In later lessons we also begin to implement LEGO technic pieces into the curriculum to gear them up for the next age group.

Sample Lessons include: Hospital bed. The crane. The draw bridge.The Dumptruck.

Ages 7-8 Curriculum Details

The Robot Engineers program explores robotics, engineering, and coding principles. In this group all classes are done with LEGO technic pieces. Using these pieces we have created an intricate introductory course in robotics. They extensively use gears and make their builds come to life with motors. In later lessons the group starts to learn basic coding principles through WeDo 2.0. This class gears kids to compete in the First Lego League Jr (FLL Jr.) Expositions in LEGOLAND, CA.

Sample classes include:
The S.U.V car build,
The Helicopter,
The retractable gate,
The catapult

Ages 9+ Curriculum Details

The Robot Champions program introduces kids to a multitude of different robotics principles. The group explores EV3 and the different motors and sensors it uses, such as the color/light sensor or the ultrasonic sensor. The students are also taught basic coding principles using the LEGO MINDSTORMS software. The course follows different topics such as automization and factories. This class gears kids to compete in the First Lego League (FLL) competitions

Sample classes include: The Bumper car, The elevator, The Gyro car, Adjustable bed.

LEXT
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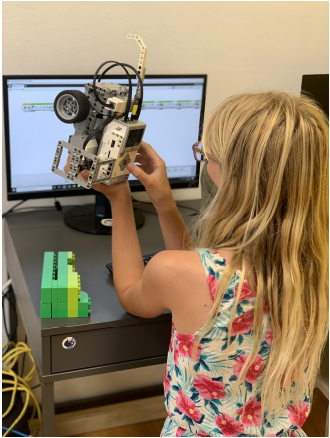
The STEAM Camp can run **Monday to Friday**(Or any day base on the schedule set up) from **9am to 12noon** or **1pm to 4pm**. The age group can be set up as **age 4-6 years old**. **7-8 years old** and **9+ years old**.

The camp provide a hands on learning experience and fun environment while developing our students skills in science, technology,engineering and mathematics. Each camp has a different topic, such as Ocean, City, Electricity ,Space and Sports.

After school program

After school program normally run during the school year and **once a week with one hour long per lesson**. Our teacher will bring the equipment to go to your place to teach.

The class set up should be as **Kindergarten**, **1st grade to 2nd grade** and **3rd grade to 5th grade**.

Competition Team Training(FLL & FLL Jr)

Each year, at the beginning of August, a unique topic is sent out. The season is broken down into 3 different sections the kids will focus on; Robot Game, Project, and Core Values.

If your school have a FLL or FLL Jr team and the results did not meet the expectations and LeXT can help your team on the Robot Game season. Our coach can use their knowledge to training your team and students can work together on tasks on the robot game board.

A better results base on the knowledge and skills. May some of the students need to take additional classes to catch up what they are missing.
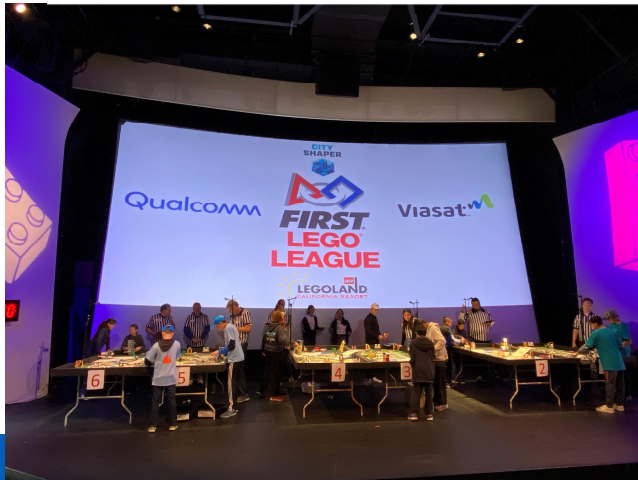
Locations:

Agoura Hills:
29039 Thousand Oaks Blvd,
Agoura Hills, CA 91301

Irvine:
4670 Barranca Pkwy, Irvine,
CA92604

Thanks for your time! We hope you will join us in our mission to further STEAM education among young children through creativity, ingenuity and fun!

-Lext Robo Acadamy