# ZEBRA ROBOTICS Learn | Code | Innovate

# Empowering People With Robotics, AI & Coding

#### Over 7 years

Founded in 2014 Headquarters: Ontario, Canada

#### Experience

12,000+ students, School curricula Over 70 competitions and 50+ awards

#### Curricula

Robotics, Coding, Technology Over 25 courses

Elementary to High School courses

### **About Zebra Robotics**

#### Mission

To provide a unique, challenging and fun environment where innovation and collaboration are encouraged.

To develop teamwork, time management and professionalism in our classes; core skills necessary to compete in internationally recognized competitions.

#### Vision

To inspire the next generation of students to be confident, respectful, knowledgeable team players who will strive to solve many of the world's challenges using technology and STEM concepts.



### International and National Competitions

Its all about experience



- Over 74 competitive teams in the last six years
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- Won 54 regional and provincial awards in First Lego League , Zone01 ,World Robotics Olympiad & Vex Robotics Competition.
- Part of Team Canada in WRO Internationals in 2016 and 2018

- FLL: US, Canada Teams advanced to state/provincials India FLL team advanced to Nationals
- Y Ve
  - Vex: 1 team advanced to provincials and another team won judges award













## **JIZZAK TECHNOLOGY EDUCATION**

BUILD SKILLSET: ONE SCHOOL AT A TIME





### Scope of work

Set up an environment that will enable to teach and train students from Grade 1 to Grade 11 in the Jizzak region, Uzbekistan in the field of robotics.

The scope for pilot phase will focus on launching a robotics program for students in grades 5 to grade 11 in select 100 schools.



# Phase 1 – Pilot Program 100 Schools

Train the trainers and 100 school rollout (Grades 5 to 11)

Stage 01 Curriculum Adaption and Train the Trainers

Analyze Jizzakh's math and computer curriculum

Identify and map robotics courses

Adapt Zebra's course material

Create reference materials for trainers

Configure and setup Learning Management System

Translate course material in Uzbek

Procure robots and materials

Train trainers on selected robotics courses and LMS

Stage 02 Pilot Program Rollout 100 Schools

Procure robots and materials for 100 schools

Setup lab at schools (Physical Space)

Setup robot kits at schools

Refresher training on LMS

Deploy Learning Management

System in Uzbek and setup

students

On-site support for on-boarding 100 schools

Periodic assistance to all schools for the academic year

Stage 03 Competitions and Continuous Improvements

Prepare for robotics competition

Conduct inter-school and regional competitions)

Dashboard reporting of

performance by schools

Monitoring and feedback for

curriculum changes

Gather change request and implement changes

Test changes with select few schools and trainers



## Phase 2 – Regional Rollout

Train the trainers and 500 school rollout (Grades 1 to 11)

Stage 04 Regional Rollout (Grades 5 to 11)

Implement curriculum changes

from pilot

Train the trainers for 400 new schools

Repeat Stage 2 activities from Phase 1 for 400 schools Stage 05 Regional Rollout (Grades 1 to 4)

Analyze Jizzakh's math and computer curriculum

Identify and map robotics courses

Adapt Zebra's course material

Create reference materials for trainers

Configure and setup Learning Management System

Translate course material in Uzbek

Procure robots and materials

Train trainers on selected robotics courses and LMS

Stage 06 Ongoing Support

Curricula upgrade

Periodic refresher training course

Learning Management System

enhancements

Reporting System enhancements

Competition Support

Curriculum and System support and assistance



### Hardware and Software for Pilot Program (Phase 1)

- ♦ Grade 5 to Grade 8 Lego Education Spike Core Set (# 45678)
- Grade 9 to Grade 11 Arduinos with Electronic components
- Two 8'x4' tables with walls. Dimension details will be provided for building
- Chromebook or Windows Laptops with at least 4 GB memory
- Stable, and good bandwidth Internet connection
- Desks and Chairs
- Projector or Large TV for the class teacher to present any concept on big screen



### Q & A



