



AT A GLANCE

20 St. Clair College robotics students and 15 Faculty of Education pre-service education students were hired as partners to deliver the program. Administrative staff were responsible for managing the project.

Regional Future Workforce Program

Project Overview

The Region Workforce Program set out to prepare the next generation of students for the shifting economic needs of the region/ nation. The program was developed to spark student interest in post- secondary and career pathways in STEM and Automobility to create a talent pipeline by developing an evidence-based summer camp and in- school robotics program for students in grades 7 and 9. St. Clair College along with community partners developed a robust STEM robotics program/ curriculum with the capacity for replicability and sustainability. The data on the following pages is a preliminary analysis of the data captured pre- and post-test, via surveys distributed to both teachers and students who participated in the program. The pre-post student survey was developed for both elementary and high school students (Grade 7 and Grade 9) utilizing Unfried's et al. (2015) S-STEM survey.

Objectives

- 400 LEGO SPIKE Prime robots were purchased from industry leaders for the in-school program. These are provided at a ratio of 1 robot to 2 students.
- 3 St. Clair College Robotics Faculty and 2 PhD candidates from partners Faculty of Education were hired to develop the curriculum in conjunction with the LEGO robots.
- 4 resources per lesson:
 - Lesson Plan document
 - PowerPoint Lesson
 - Teacher Resource
 - Student Resource

Results

- 4 local school boards
- 11 different schools
- 33 different classrooms
- 15 community partners
- 1000 student participants

