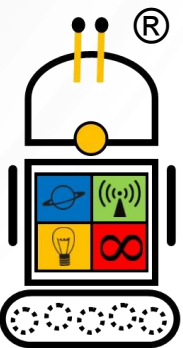
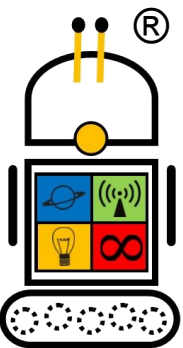


# ROBO-GEEK - WORKSHOPS



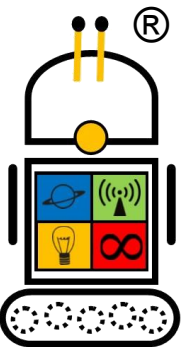
# ROBO-GEEK INC.

- **Robo-Geek** is a technology company founded by engineers to promote **STEM**, with the aim to foster students' confidence and "**I Can do it**" attitude.
- Our staff consists of **passionate engineers** who have carefully designed all the courses to ensure the best learning experience for each student.
- Our courses are designed for students in grade 2 through 12 to introduce them to the fundamentals of **Coding, Electronics and Robotics**.
- Each course includes hands-on work with computers, electronic boards, robots and unique labs that encourage self-learning and experimentation.
- Our advanced courses submerge the students in exciting subjects of **Game Programming, Computer Vision and Swarm Robotics**. Students are encouraged to experiment and **unleash their imagination**.



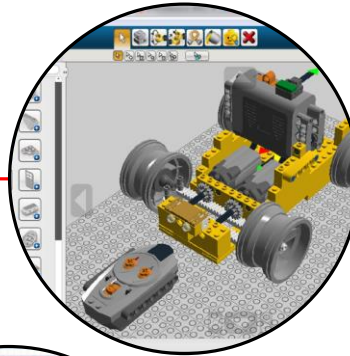
# ROBO-GEEK INC.

- **Hands-on Experience.** Our students learn by doing, Robo-Geek's sessions consists of fifteen minutes of lecture and 30 minutes of lab. Each Robo-Geek lab has been tested and designed to optimize topics comprehension.
- **Continuous Innovation.** Our courses are at the leading edge of technology. We pride ourselves in the development and continuous innovation of our unique labs.
- **Promotion of STEM.** Our labs and exercises focus on expanding the student's learning experience in science, technology, engineering and mathematics.
- **Swarm Robotics.** A new approach to the coordination of multi-robot systems, working together by selecting their communication patterns.

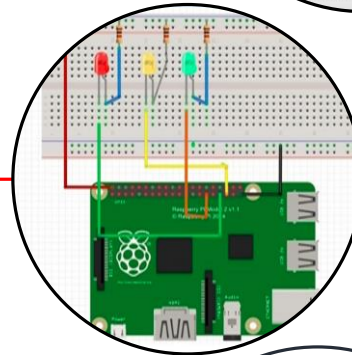


# OUR PHILOSOPHY

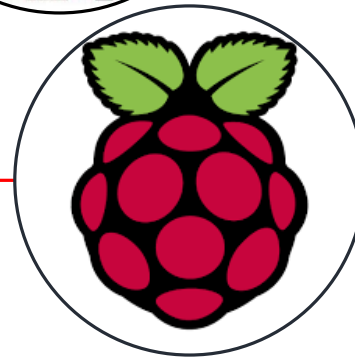
IMAGINE  
THINK  
CREATE



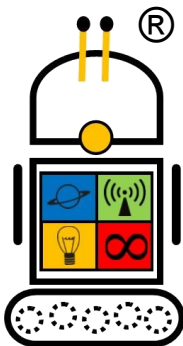
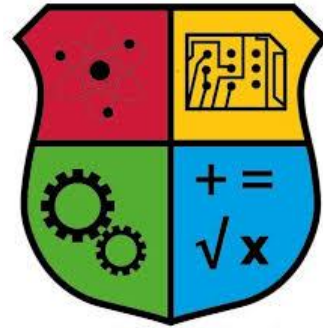
Robotics  
& AI



Electronics  
&  
Mechatronics

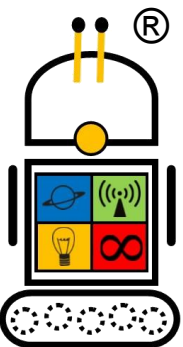


Coding



# MILESTONES

- Founded in 2015 at Milton location started with two courses, 10 Raspberry Pis and a lot of dreams
- In early 2016 moved to **Milton Education Village** where we have been part of an amazing community of technology entrepreneurs
- In the fall of 2016 we launched STEM Club and Robotics Club. Our commitment to stay current and innovate.
- In 2017 we solidified a Re-sellers partnership with **EZ-robots** and **Qihan Technologies**
- Summer of 2017 we opened our new location in Brampton
- Fall 2017 we launched our Self Driving car project with STEM club
- In 2018 we continue our expansion and supported multiple workshops across GTA with students from JK to G12 and with many educators
- Fall 2018, we added ROS (Robotics Operating System) in our curriculum




# ACCOMPLISHMENTS

Perspective

PROVINCE ▾ AGRI FINANCE INNOVATION LIFE SCIENCES MANUFACTURING NATURAL RESOURCES TECHNOLOGY

## DIVERSE GROUP OF ENTREPRENEURS BUILD MILTON'S ECONOMY

October 17, 2018 321




Omar Silva Fulchi owner of Robo Geek a company that teaches programming and robotics

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DISCOVER A COMMUNITY OF ENTREPRENEURS IN MILTON ONTARIO.

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COMMERCIAL REAL ESTATE

Ontario's premium source for Commercial Real-Estate development NEWS.

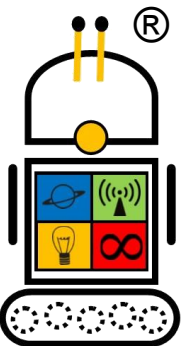
BRAMPTON :: BURLINGTON :: CALEDON :: GUELPH  
HAMILTON :: KINGSTON :: LONDON :: MISSISSAUGA  
OAKVILLE :: WATERLOO

### LATEST ARTICLES

More ▾

-  DIVERSE GROUP OF ENTREPRENEURS BUILD MILTON'S ECONOMY  
**INNOVATION** October 17, 2018
-  CANADA'S FIRST BEYOND NET ZERO ENERGY RESIDENTIAL BUILDING COMES TO MILTON.  
**ONTARIO** October 1, 2018
-  SMILEZONE - EVERY CHILD DESERVES TO SMILE.  
**LIFE SCIENCES** September 18, 2018
-  ROCKWOOL™ DRIVING PROGRESS TOWARD MORE SUSTAINABLE, ENERGY-EFFICIENT ENVIRONMENT  
**INNOVATION** September 15, 2018

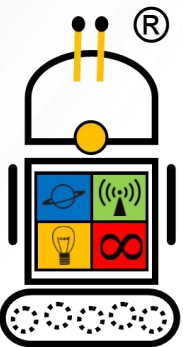
- Over 1600 students in the past 4 years
- 18 courses now offered in our programs: RG-100 to RG-800 level
- 20 completed projects with STEM and Robotics clubs
- 28 workshops in STEM, Coding and Robotics
- Our team has grown to 5 instructors and 8 teaching assistants (students)
- Offered over \$5000 in scholarships with multiple partnerships in our communities.





# ROBO-GEEK WORKSHOPS

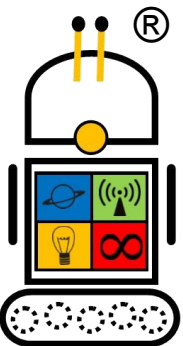
**SUPPORTING EDUCATORS WITH STEM CURRICULUM**



# ABOUT OUR WORKSHOPS

- Unique in Canada. Developed by Robo-Geek team to maximize learning process with hands-on approach to learning.
- Robo-Geek offers a variety of single day workshops for school field trips and we work with private and public schools with special requests requiring multiple day workshops.
- Robo-Geek has two facilities: Milton and Brampton capable of accommodating 30 students at the time. Bigger groups may be accommodated with 2 weeks notice.
- Upon request and depending on school facilities, our team can deliver workshops at your facilities.
- Our workshops are aligned with Ontario Curriculum for Elementary and Secondary for Science, Mathematics and Technology
  - <http://www.edu.gov.on.ca/eng/curriculum/elementary/index.html>
  - <http://www.edu.gov.on.ca/eng/curriculum/secondary/index.htm>

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# GRADES 1-8 SCIENCE AND TECHNOLOGY

## STRANDS IN THE SCIENCE AND TECHNOLOGY CURRICULUM

The science and technology curriculum expectations are organized in four strands, which are the major areas of knowledge and skills in the science and technology curriculum.

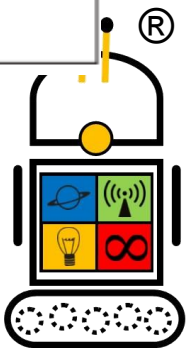
The four strands are as follows:

- Understanding Life Systems
- Understanding Structures and Mechanisms
- Understanding Matter and Energy
- Understanding Earth and Space Systems

Ontario Science Curriculum – Science and Technology Studies Grades 1-8

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| Elementary Science and Technology Curriculum Overview      |  |   |   |                                       |
|--|--|---|---|---------------------------------------|
|  | Understanding Life Systems   | Understanding Structures and Mechanisms                                     | Understanding Matter and Energy   | Understanding Earth and Space Systems |
| Grade 1  | Needs and Characteristics of Living Things   | Materials, Objects, and Everyday Structures                                 | Energy in Our Lives   | Daily and Seasonal Changes            |
| Grade 2  | Growth and Changes in Animals  | Movement  | Properties of Liquids and Solids  | Air and Water in the Environment      |
| Grade 3  | Growth and Changes in Plants   | Strong and Stable Structures  | Forces Causing Movement   | Soils in the Environment              |
| Grade 4  | Habitats and Communities   | Pulleys and Gears   | Light and Sound   | Rocks and Minerals                    |
| Grade 5  | Human Organ Systems  | Forces Acting on Structures and Mechanisms                                  | Properties of and Changes in Matter   | Conservation of Energy and Resources  |
| Grade 6  | Biodiversity   | Flight  | Electricity and Electrical Devices  | Space                                 |
| Grade 7  | Interactions in the Environment  | Form and Function   | Pure Substances and Mixtures  | Heat in the Environment               |
| Grade 8  | Cells  | Systems in Action   | Fluids  | Water Systems                         |
| Grade 9 and 10 Technological Education Curriculum Overview |  |   |   |                                       |
| Grade 9  | Exploring Technologies<br>Students will be given the opportunity to explore technology concepts that they will need in order to create designs, utilize software, fabricate products, document events, and prepare goods and services. This exploratory course provides a link between the concepts and skills studied in the elementary science and technology strand called Understanding Structures and Mechanisms and the topics studied in various subject areas of broad-based technology. Students will gain awareness of educational and training requirements for technology-related opportunities. |   |   |                                       |
| Grade 10   | Hairstyling and Aesthetics<br>Health Care<br>Hospitality and Tourism   | Technological Design<br>Manufacturing Technology<br>Construction Technology | Communications Technology<br>Computer Technology<br>Transportation Technology | Green Industries                      |



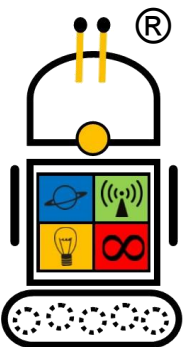
# GRADES 1-8 SCIENCE AND TECHNOLOGY

| Elementary Science and Technology Curriculum Overview      |   |   |   |                                       |
|--|---|---|---|---------------------------------------|
|  | Understanding Life Systems  | Understanding Structures and Mechanisms                                     | Understanding Matter and Energy   | Understanding Earth and Space Systems |
| Grade 1  | Needs and Characteristics of Living Things  | Materials, Objects, and Everyday Structures                                 | Energy in Our Lives   | Daily and Seasonal Changes            |
| Grade 2  | Growth and Changes in Animals   | Movement  | Properties of Liquids and Solids  | Air and Water in the Environment      |
| Grade 3  | Growth and Changes in Plants  | Strong and Stable Structures  | Forces Causing Movement   | Soils in the Environment              |
| Grade 4  | Habitats and Communities  | Pulleys and Gears   | Light and Sound   | Rocks and Minerals                    |
| Grade 5  | Human Organ Systems   | Forces Acting on Structures and Mechanisms                                  | Properties of and Changes in Matter   | Conservation of Energy and Resources  |
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| Grade 10   | Hairstyling and Aesthetics<br>Health Care<br>Hospitality and Tourism  | Technological Design<br>Manufacturing Technology<br>Construction Technology | Communications Technology<br>Computer Technology<br>Transportation Technology | Green Industries                      |

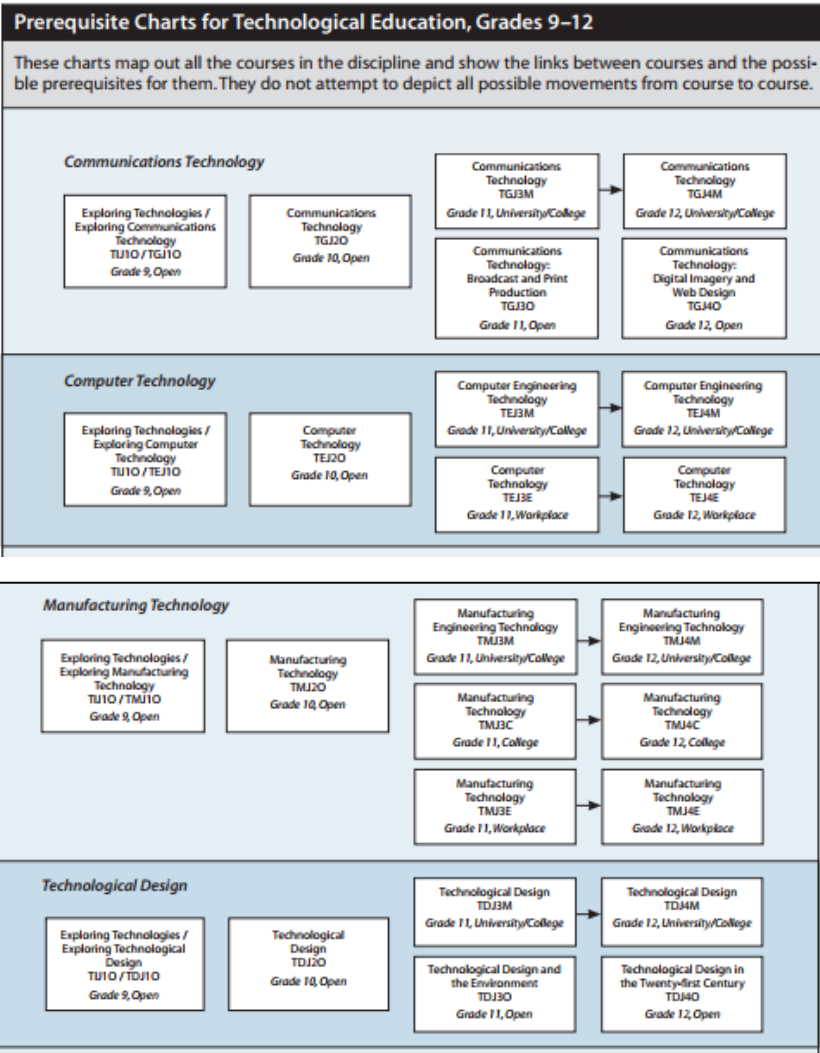
Ontario Science Curriculum – Science and Technology Studies Grades 1-8

## Available Workshops:

- RG-STEM-01: Bridge Design G 1,2,3,4,
- RG-STEM-02: RPI (Raspberry PI) G 5,6,7,8
- RG-STEM-03: Solar System G 6, 7
- RG-STEM-04: Turing Machine-AI G 6, 7, 8
- RG-STEM-05: Gravity G 4, 5, 6
- RG-STEM-06: Intro to Electricity G 6, 7, 8
- RG-STEM-07: Neural Networks G 7, 8
- RG-STEM-08: Self Driving Cars G 7, 8
- RG-STEM-09: Intro to Robotics G 5, 6, 7, 8
- RG-STEM-10: Intro to Coding G 1,2,3,4
- RG-STEM-11: Intro to Python G 5,6,7,8
- RG-STEM-12: Intro to Arduino G 5,6,7,8
- RG-STEM-13: Mini Factory G 7, 8
- RG-STEM-26: Combo Coding G 5,6,7,8
- RG-STEM-29: Plane Workshop G 1,2,3,4
- RG-STEM-31: Telephone Workshop G1,2,3,4

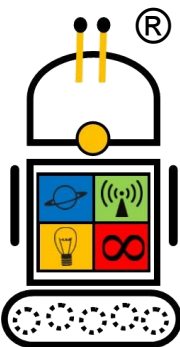


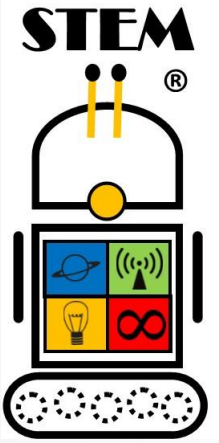
# GRADES 9-12 TECHNOLOGY



## Available Workshops:

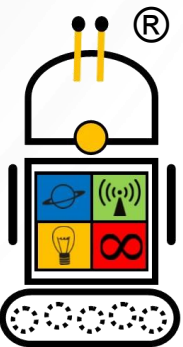
- RG-STEM-04: Turing Machine -AI G 9, 10
- RG-STEM-07: Neural Networks G 9, 10
- RG-STEM-08: Self Driving Cars Intro G 9, 10
- RG-STEM-11: Python G 9, 10
- RG-STEM-15: Electricity + Arduino G 9, 10
- RG-STEM-16: Neural Networks Advanced G 9-12
- RG-STEM-17: Self Driving Cars Advanced G 9-12
- RG-STEM-18: Computer Vision with Python G 9-12
- RG-STEM-19: Manufacturing Workshop G 11,12
- RG-STEM-20: Internet of Things G 9-12
- RG-STEM-21: Introduction to Java G 9-12
- RG-STEM-24: Android Studio G 9-12
- RG-STEM-25: Introduction to C# G 9-12
- RG-STEM-27: Android Studio with Sanbot Elf G 9-12
- RG-STEM-28: Pygame G 9-12





# ROBO-GEEK INC.

LIST OF SCHOOLS FOR WORKSHOPS (ON-SITE & AT ROBO-GEEK)



Fairlawn Public School - Milton  
Meadowvale Secondary School - Mississauga  
St. Vincent de Paul School -Mississauga  
Montessori School of Milton  
Montessori School -Caledon  
Halton Hills Public Library  
Montessori School of Milton  
Walden International School  
Sterling Education – Mossley Campus  
✦ St. Cecilia School -Brampton  
T.L. Kennedy Secondary School- Mississauga  
Wali ul Asr Learning Institute  
Al Huda Elementary School- Mississauga  
Columbia International College - Hamilton  
Grand Erie District School Board  
St. Timothy's- Burlington  
MM Robinson High School - Burlington  
Lakeview Montessori- Windsor

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