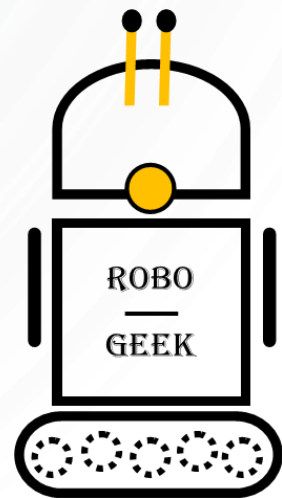




# ROBO-GEEK INC.

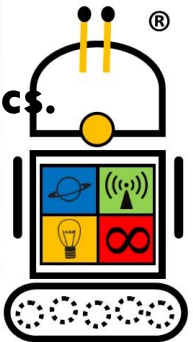
## STEM SUMMER CAMP 2020



# ROBO-GEEK INC.

- **Robo-Geek Inc.** 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 with Python and Pygame, Computer Vision (CV) for driverless car applications, Java, Android Studio, Arduino with C, C# with Visual Studio, ROS (Robotic Operating System) and Robotics**. Students are encouraged to experiment and *unleash their imagination*.

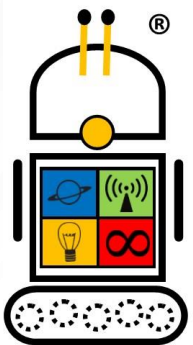
[www.robo-geek.ca](http://www.robo-geek.ca) | 1.800.414.4109



# 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.

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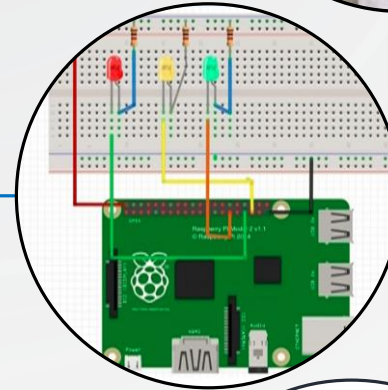


**ROBO-GEEK INC.**

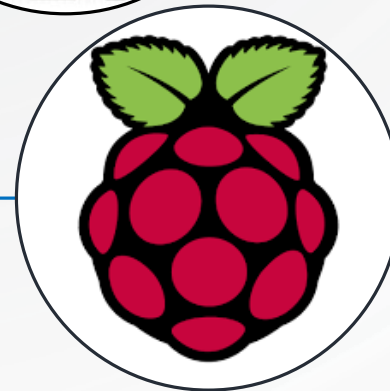
IMAGINE  
THINK  
CREATE



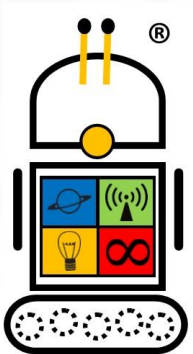
Robotics &  
AI



Electronics &  
Mechatronics



Coding  
& Apps



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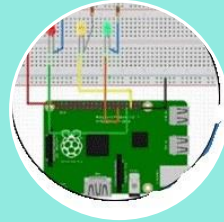
# ROBO-GEEK SUMMER CAMP 2020



Day 1:  
Coding



Day 2:  
Coding



Day 3:  
Coding




Day 4:  
Robotics




Day 5:  
Robotics



 **Milton, ON**

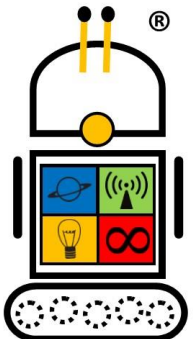
 July-August 2020  
9am - 4pm

 Students 7 - 15 years old

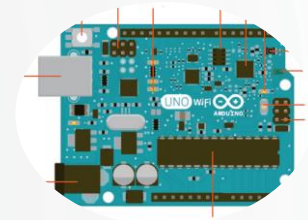
 [info@robo-geek.ca](mailto:info@robo-geek.ca)

 1.800.414.4109

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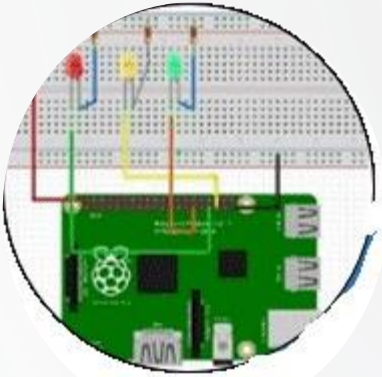


# CODING



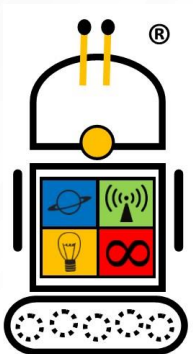
- What is coding? Programming computers
- Students don't need to have any prior experience in coding.
- In Type 1 Camp, students will learn Java and Android Studio to make Apps on Android tablets
- In type 2 Camp, students will learn Python, Pygame to make games.
- In Type 3 Camp students will learn C# (C Sharp) with Visual Studio 2019 to make a Bingo Game and different projects.
- In Types 4 students will learn C with Arduino board.
- In Type 5 students will learn ROS (Robotic Operating System) with Ubuntu.
- In Type 6 students will learn Python and CV (Computer Vision) applied to Driverless car.

# ELECTRONICS- ARDUINO



Students will learn **C** with **Arduino boards**; **C** is a high-level programming language that allows programmers concepts in fewer lines of code. Students will build circuits on their breadboards using Leds, resistors, switches and sensors. Moreover, they will write sketches ( code in C) to control the Leds.

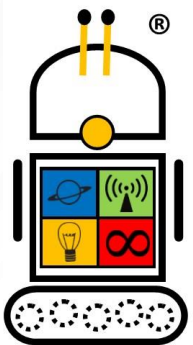
**Goal: Learn how to write code in C**



# ROBOTICS PROJECTS



Students will learn how to assembly OSEPP robots two wheeler and the tank. Moreover, they will learn step by step how to troubleshoot after assembling them testing the motors and the different components and controls. They will control the robots through a Bluetooth interface.





# SUMMER CAMPS

- Students will work in groups of two per laptop for coding.
- Students will work in groups of four for one robot and two laptops.
- SALE: COMBOS
  - 1 CAMP \$199
  - 2 CAMPS \$350
  - 3 CAMPS \$500
  - 4 CAMPS \$600
  - 5 CAMPS \$700

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