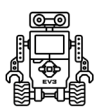


GearBots STEM Program

Presented by the Abbotsford International Airshow Society

Our Mission



The GearBots STEM Program strives to ignite curiosity, foster creativity, and build confidence in every student.

By connecting classroom concepts to real-world applications, participants learn to think like engineers, preparing them to thrive in an increasingly technology-driven world.

Program Overview

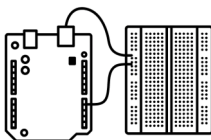


The GearBots STEM Program inspires the next generation of innovators through hands-on, project-based learning in science, technology, engineering, and mathematics (STEM). Designed to engage students from elementary through high school, the program encourages curiosity, creativity, and confidence in solving real-world challenges.

Skills and Learning Areas

Participants explore a broad range of technical and creative disciplines, including:

- Coding & Robotics
- Digital Design for 3D Printing & Laser Cutting
- Electronics & Circuitry
- Engineering Design Process
- Aerospace Engineering Fundamentals



Career Skills

- Soft skills that support lifelong learning and personal growth
- Creativity & Innovation
- Collaboration & Teamwork
- Critical Thinking & Problem Solving
- Resiliency & Determination
- Order of Operations & Computational Thinking

GearBots offers a variety of engaging opportunities for young learners:

After-School Classes

Location: Abbotsford and Chilliwack

1. Jr. Makerspace – Introduces younger students to creative problem-solving through building, coding, and designing.
2. Sr. STEM Academy – Challenges older students to design, program, and engineer advanced projects using robotics, electronics, and digital fabrication tools.

Camps

Location: Abbotsford

Themed Spring Break & Summer Camps – Immersive, week-long experiences that combine fun and learning through team-based engineering challenges, coding projects, and robotics missions.

Specialty Workshops

Location: Lower mainland

One-day themed sessions that highlight aerospace engineering and other advanced STEM topics connected to aerospace engineering.

gearbots.org



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