Robotics and Coding

"Our experience with FIRST Robotics Competition in the spring of 2023 has overflowed into the development of a robotics and coding profile here at TRA.

Growing out of the coding profile and integrating a robotics component, our partnership with the Digihub in Shawinigan and the team at PTC software here in Trois-Rivières, our robotics profile this year will allow students to take on technical challenges using technology.

On the menu for this year are programming Micro:bits with MakeCode to learn the basics of programming and to see the possibilities available with the multitude of sensors available, assembling and programming KeyStudio robot kits which will involve choosing, then adding and removing modules according to the requirements of each challenge, competing in local competitions designed by our team at PTC, 3D design with OnShape as well as 3D printing parts and objects.

We will also have opportunities to maintain, improve and drive our 2023 FIRST Robotics Competition robot to experience industrial quality robotics.