



intelitek  [®]
Pedagogic Vision



Intelitek Pedagogic Vision

Technology education for students has always been our quest at Intelitek. We believe that the right education environments support communication between teacher and student, facilitate life-time learning, and transfer professional skills.

for their working life today and for the following decades. We realize that in today's world, change is ongoing, technology creates even more change and workers need to adopt to a rapidly changing work place. It is not possible to foresee today the professions that will be required tomorrow or the occupations that will disappear, however, there is a realization that we need to adopt a constant learning mode and the skills to be able to accept change.

Intelitek believes that educators need to educate graduates to be able to adapt themselves to changes in the job market over the course of their careers. We want to equip students to be able to successfully cope with ongoing change. We teach a process that promotes adaptation. With the right skillset, the ability to be creative, critical thinkers or problem solvers helps the student be adaptive to change. This skillset beyond today's professional skills, will make these students even more valuable to employers and the community.

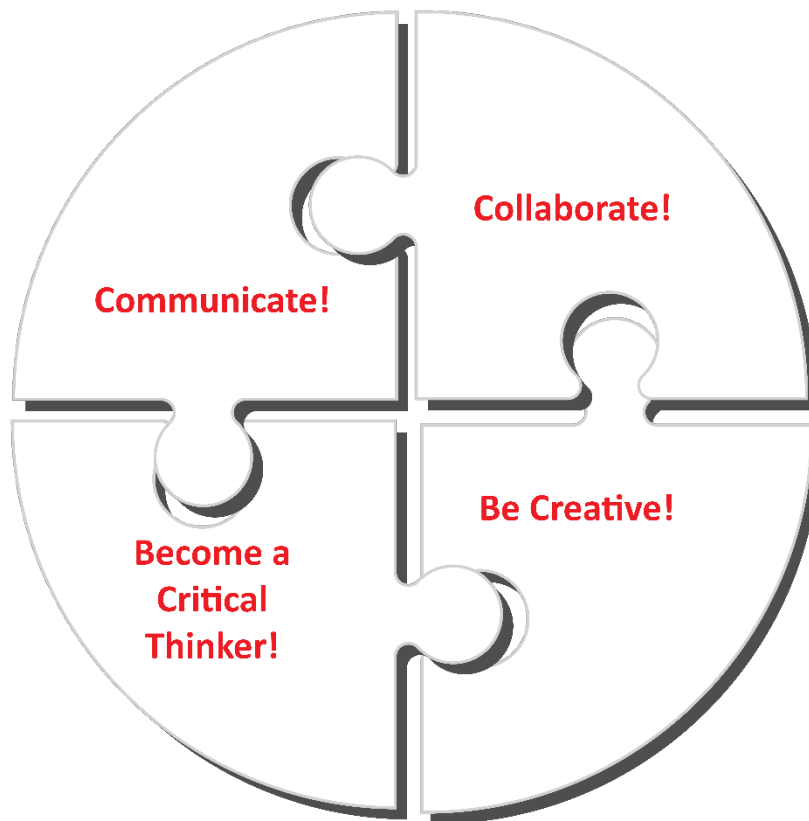
Intelitek implements a unique approach to tech education focusing on the skills that students will need for their **entire** working life. Our technological learning environments focus on exercising 21st century skills. We aim to develop the students' thinking skills. We believe that a member of the community who has acquired enhanced thinking skills will grow and evolve with the changes in the labor market. This person will find the way to remain relevant despite of the unpredictable changes that will happen in the future. The acquisition of these thinking skills is integrated into the professional training process that Intelitek offers.

Intelitek delivers learning environments that **in addition to providing lifelong learning skills** they provide the transfer of **knowledge** in the fields of STEM machines, robots and automation systems.



The Thinking Skills at the Core of our Learning Programs – The 21st Century Skills

1. **Communicate!** – The ability to interact with other employees, absorb information, create knowledge, and share your experience with team members.
2. **Collaborate!** The skill to enhance your decision-making processes. Perform team roles, lead a team and receive guidance from a team leader.
3. **Become a Critical Thinker!** The skill to engage in a thinking process that examines your knowledge, likely possibilities and tacit knowledge that will allow you to reach the answer after evaluation of conclusions.
4. **Be Creative!** The skills to have intellectual flexibility. Interpret reality from different points of view, offer different solutions to a given problem.



The Intelitek Tech Education Method – Creating a Learning Environment

1. Enriching Interaction – Teacher to Student / Student to Student

We believe human interaction facilitates learning and personal development. Our education environments include tools for better teacher student interaction and collaborative projects for peer interaction. Improving education is achieved through better teaching by better teachers. The tools we provide teachers support them so they can to create an interactive, mentoring teaching process. Changing student education requires changing the teaching perspective.

2. Comprehensive Courses

Our pedagogical package includes courseware with an online lesson plan that enables individual self-paced learning and group learning coupled with software gamification features for enhancing K-12 STEM education. These courses can be taught in many ways adaptable to the instructor or the educational institutions directive.

Courses also contain formative assessment to shape the learning process throughout the class (as opposed to a summative assessment that is performed only at the end of the learning process). The learning management (LMS) system tracks the progress of each student and enables the instructors to locate problems immediately. Thus, allowing the educational team evidence-based data to suggest the correct assistance to the student. The learning management system will also enable students to bridge any gaps created and to catch up with the progress of the class.

3. Project Based Learning

Students are required to apply the theoretical knowledge they obtained by having to solve real-life, open-ended problems. For these projects, students will need to communicate with their peers, collaborate with them, apply critical thinking and be creative in order to address the problem and find the solution.

4. Equipment Specialized for Teaching

Our equipment is specifically designed to create the learning environment for exercising thinking skills while exploring the topic at hand. Optimized to implement our pedagogic vision the Intelitek training equipment integrates with simulation intended for trial and error, and is a platform for problem solving projects, and hands-on practical training.



Embracing Change

We believe that the education paradigm must change to meet the changes in the world in general and the labor market in particular.

Education programs must move on

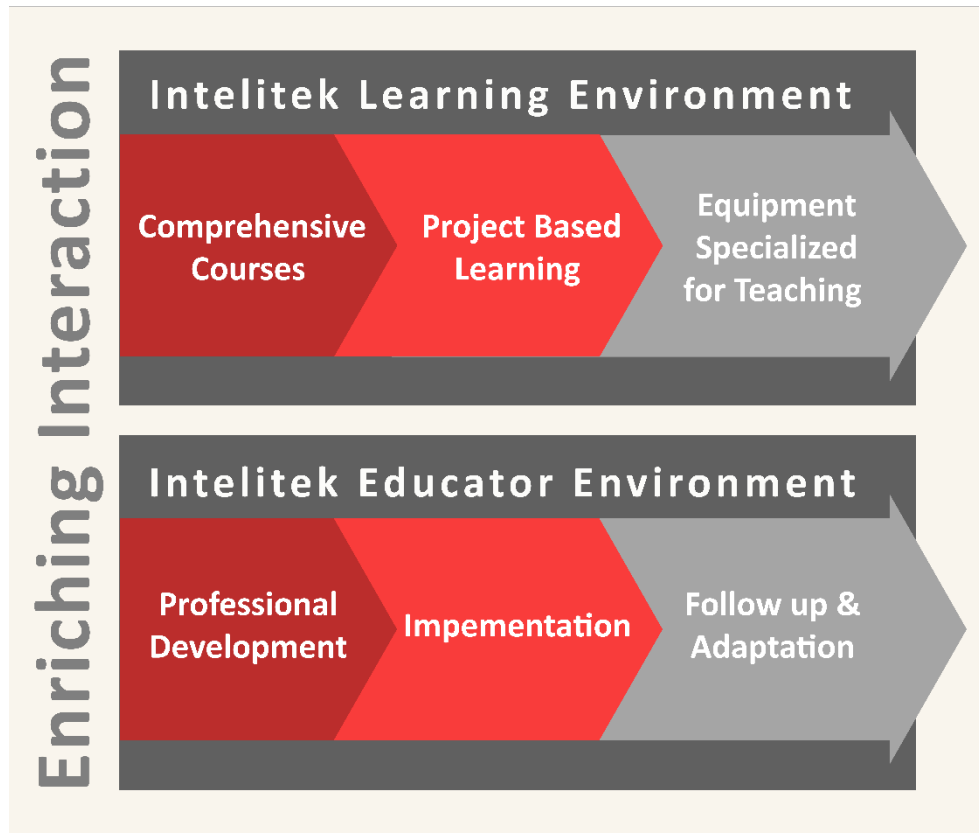


The challenge for most teachers and schools is recognizing that **what needs to change is the educational approach, not the subject matter content.** Teachers need to change their professional approach.

Most teachers are still using the same teaching methods that have been used for the past decades, but the teaching methodology must adapt to the changes in the world.

Naturally, changing a professional approach is not easy to embrace. Teachers have always been accustomed to be the source of the knowledge, now they need to learn to be facilitators of knowledge seeking methods for their students, they need to teach student to be curious, inquisitive and questioning in nature. Their biggest challenge may be how to switch from evaluating knowledge to assessment of thinking skills.

Implementing the Learning Environment Change



Training and Guidance for Teachers:

- 1. Professional Development** – Professional Development workshops from Intelitek are designed to facilitate the change in the teaching methodology. Instruction includes the rationale of the new teaching approach and how to implement it in the classroom. The teacher training is based on activities that make the teacher an active learner who will experience the new approach from a student and a teacher perspective.
- 2. Implementation:** Since teachers are content experts for their field of knowledge, in the second stage of the training, after presenting the new methodology, the teacher will learn how to deliver expert content using the new approach. The outcome for the teacher at this stage is a new adjusted curriculum created and owned by the teacher that will be used with the students.
- 3. Follow-up and adaptation:** Our approach includes tracking and supporting the teachers during the delivery of the courses. The pedagogic change required of the teachers is fundamental and takes time to implement. For this purpose, accompanying the teachers during the implementation of the program so that they can apply the principles is essential.

Summary

Moore's law shows the pace of technology change as increasing exponentially over time. In today's modern industrial world, the pace of change, outpaces the speed with which we educate our students. As a result, educators need to change their roles from transferring static knowledge to mentoring students and building their skills to solve problems, communicate, collaborate and be independent thinkers. If schools and educators want to prepare students for life, they are obliged to focus on educating students to self-develop along with the skills they are learning. The machinist must learn to introduce new technologies, new designs, new implementations. The operator must learn how to continually update their knowledge base with new systems, new processes and faster systems.

On every level, the worker of today will need to acquire and change skills and learn new facts over their lifetime. Intelitek is working to enable the educators of today to teach students to deal with this reality – to learn how to approach a problem, how to be creative, how to collaborate and how to communicate – this fundamental mindset empowers students to be able to deal with the new skills they will have to acquire throughout their working career.



800-221-2763
603-413-2600



info@intelitek.com



www.intelitek.com