



**ro.**  
**bots**

**AutoVortex**



# A Fresh Vision Through Proactive Education

Education is the process of facilitating learning, or the acquisition of knowledge, skills, values, beliefs, and habits.

Education can take place in *formal or informal settings* and any experience that has a formative effect on the way one thinks, feels, or acts may be considered educational. Alternative education developed in part as a reaction to perceived limitations and failings of traditional education.

While informal learning often takes place outside educational establishments and does not follow a specified curriculum, it can also occur within educational settings and even during formal learning situations.

We take the vision of informal learning at a new level *by using mostly the hands-on technology approach*. Students are mostly engaged in practical activities by mentors who have a lot of real life experience and a strong professional background for their young age. *Education results in this way as a side product* and the students learn without feeling the pressure of accumulating boring pieces of information without testing them in advance. Another important aspect is the self-directed learning by encouraging students to do a lot of self research and to acknowledge that *a specific craft or job gets stollen and not taught*. Students will learn first of all to adopt an apprentice style approach, by assisting and helping more advanced colleagues from the team during the specific activities they perform throughout all the different stages of preparing for the competition. Everybody has to respect their partners and to understand that in life, *success and victory can only be achieved through hard work, fairness and persistence*.

Over **8** *Years*

of *Successful Adventures*

with some of the best

*Competitors* all over  
the **WORLD**

**2012**

*In a garage in the city of Voluntari, the legendary team AutoVortex is born.*

*We won 1st place and Inspire Award at FTC CEESA and participated to our first World Championship in St. Louis USA.*

## **Our Mission**

Our primary mission is to train students into the beautiful field of robotics by teaching them how to build, program, manage and manipulate a competition robot.

The secondary mission is to stimulate their future desire for STEM (Science, Technology, Engineering and Mathematics) in order for them to pursue an Engineering University and career. In the long term, we want to inspire young people to be science and technology leaders and innovators.



## 2013

*We received the Compass and Connect Awards at Tarragona Robotics Festival, 2nd place at Robofest Russia and 1st place at FTC CEESA. We participated also at our first Hackathon event.*

## 2014

*1st place in a row at FTC Russia, FTC Germany, FTC Dutch Open and FTC CEESA. Another successful participation at the World Robotics Championship in St. Louis USA.*

## 2015

*First time to explore FTC South Korea with Gold Medal, 2nd place FTC Russia, and CEESA, 1st place FTC France, FTC Germany and FTC Dutch Open. Won 1st place at WRO Romania.*

## 2016

*We started the season with Gold in South Korea and continued with 1st place at FTC Germany and FTC Russia. We mentored a new team from the rural area in Romania.*

## 2017

*Gold in South Korea, 1st place at FTC Israel, 1st place at FTC Canada, played the Finals at the World Championship in St. Louis and Houston. Helped at the creation of FTC ROMANIA.*

## 2018

*After Gold in South Korea and 1st place at FTC Russia in Perm, we explored FTC South Africa where we also obtained 1st place. We finished the season with 1st place at FTC Netherlands.*

## 2019

*We conquered Asia by receiving a gold medal and 1st place at FTC South Korea and FTC Hong Kong. We won 1st place at FTC Romania Coanda Division. We continued recruiting new students.*

## Our Experience

By working with young people from different schools, age levels and backgrounds, we understood how to approach the modern needs of our students in a professional and pleasant way. By offering them hands-on teamwork involvement and by traveling to distant competitions around the world, we give them access to vibrant real life experiences, adrenaline rush emotions, interactions with different cultures and life changing opportunities that lead to faster and healthier maturity.

# Moving Forward

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With each competition and new generation of students we embrace new opportunities and also new challenges. What is permanent? Change. We need to adapt to the modern times we live in and to the requirements of international competitions, standards and the complex demands from our society. Robotics is no longer science fiction. It is already part of our daily life, wherever we want to accept it or not. It is our duty to prepare quality characters and future leaders in this field of innovative industry.

We have learned that it is important to inform the audience about the astonishing results of our team. Modesty is no longer an option in a world full of false champions and deceptions. Creative work and good results are hard to come by and a must in such a competitive field as robotics. AutoVortex robots and students are constantly invited to TV Shows, conferences, exhibitions, tech festivals, technology talks and social events. Our success story is featured in a lot of national newspaper articles, magazines and online media and has also inspired to the creation of new robotics teams with students from all over the world.

Our students feel the sweet taste of victory and success, but are fully aware of all the hard work and sacrifice that is involved for it to be achieved. People mostly only see the top of the iceberg and forget to take into consideration the hidden part that contains all the persistence, late nights, rejections, discipline, criticism, failures, risks, doubts, dedication and disappointment. Successful innovative people become role models for their colleagues, friends, family and local community and have to cope with a lot of stress and responsibility for their young age.

The constant demand from the public for practical robots and automations to be used in the daily life has stimulated our imagination and desire to bring into the market new products. We want to develop new social robots and showcase them to different venues in order to apply in real life all the knowledge we gathered during building and programming our competition robots.

AutoVortex has become a high quality brand and we would like to expand our operations to new levels so that our students will choose to continue working together on exciting projects after they graduate and to be innovation mentors for the generations to come.





*Winning is temporary...*

*Learning and true friendship lasts forever!*

*Discovering better ways to build trusted relationships by developing high standards and gracious professionalism to meet the needs of modern students now and in the future.*

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Valentin Ionut Panea, Head coach & Team Manager





KRC

2018 - 2019

KOREA ROBOT  
CHAMPIONSHIP

KOREA ROBOT CHAMPIONSHIP



코리아로봇챔피언십





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*Our team creates new possibilities for students to pursue their passions and realize their dreams...*

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# Teamwork

Work hard, play hard.

Students get to learn and develop valuable skills that cannot be taught on a traditional school system.

Responsibility is imposed by a given task and each single role is highly important for the team: 3D designer, mechanic, builder, programmer, driver or marketing expert.

Each student is part of the perpetual vortex, a small gear inside a complex mechanism and each relies on the good work done by their colleagues for the general performance of the team as a whole..

Knowledge is continuously transferred from one cycle to the other and mostly by former students who become mentors and role models for the new generation.

- *We learn a lot from victories, but also a lot more from failures and hard times;*
- *We bare a big responsibility in also helping others succeed and representing our nation;*
- *We respect each other as a big family.*

You are never alone. Each colleague will back you up and help you rise to your maximum potential when you fall.

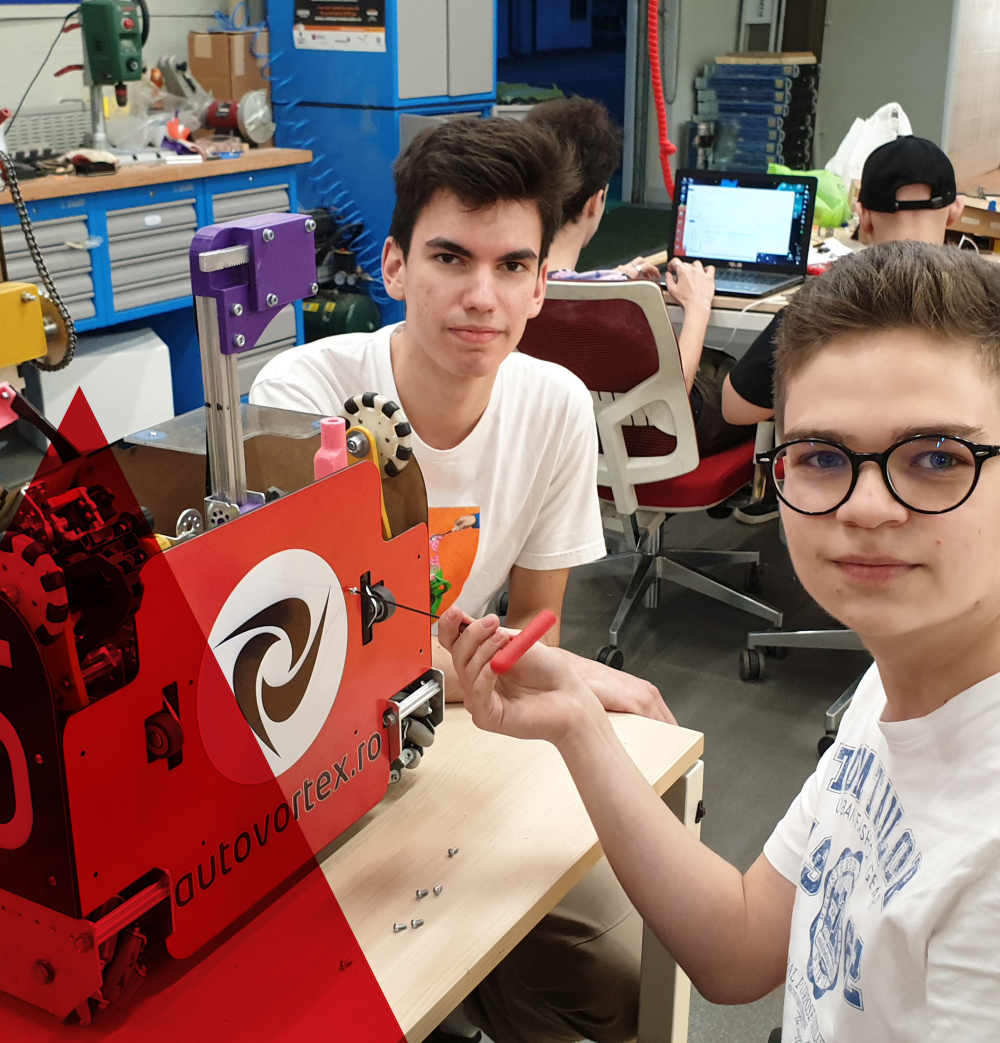
It does not matter which school you attend, your social background or the level of skills you currently possess.

You will start a new journey where you will transform yourself and discover your deepest passions and reach your highest ranking.

Students learn how to collaborate, how to trust and help each other and how to create and innovate as a team so that at the end, they can all together enjoy the taste of success.

Greatness is only achieved by hard work and perseverance. You decide your future!





Strengthening your business image is one of the most valuable benefits of sponsorship. Customers love brands that care about spreading positive messages and helping the community. Linking your business to a worthy cause can draw lasting support and media attention. Community involvement also sets you apart from larger brands. People have more incentive to support your business if you're invested in the local community. Find out what matters to customers, and pick causes that align with their values to boost loyalty.

*“It is the moral duty of local community to give back, mentor, help and stimulate innovation and creative work by active sponsorship and actions dedicated to the young generation.”*

We extend an invitation to all the companies, organizations and persons that are willing to help our team in continuing our quest in the beautiful field of robotics by creating an impact into the lives of the young generation of future innovation leaders. We need long time partners to associate with for the funding of our projects and educational research.







# Competitions around the World

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## USA, CANADA & SOUTH AMERICA

- British Columbia competition in Victoria, Western Canada
- Invitational Championships in Chicago, Maryland
- World Championship events in Detroit, Houston and St. Louis

## EUROPE

- FTC Dutch Open
- FTC France
- FTC Germany
- FTC Russia Open
- FTC Spain
- FTC Romania

## AFRICA & MIDDLE EAST

- FTC Israel
- FTC South Africa

## ASIA & AUSTRALIA

- FTC South Korea
- FTC China
- FTC Hong Kong
- FTC Australia Invitational

# Travel costs and expenses

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- air plane tickets
- hotel rooms
- rental cars and fuel
- competition fees and taxes
- food / drinks

## Get in Touch

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We are happy to hear your opinion. We are open to new ideas, business proposals and new collaboration opportunities.

You can appreciate our work by using social media platforms by liking, subscribing, sharing and commenting.

You can backup our team efforts by joining, volunteering, mentoring, sponsorship or just a nice thought.



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