

Gerda Stetter Stiftung

Technik *macht* Spaß!



What we aim for

- ✓ Learning with fun
- ✓ Earliest possible inspiration for technology
- ✓ Fostering independent thinking
- ✓ Understanding cause-effect relationships
- ✓ Supporting children from socially disadvantaged families
- ✓ Getting more girls and young women interested in technology
- ✓ Fostering children from all nationalities
- ✓ Joint learning of young and old
- ✓ Crosslinking of schools, universities & companies
- ✓ Introducing High-Tech
- ✓ Ensuring professionals on a long-term basis

“Anyone who stops learning is old,
no matter whether he counts 20 or 80 years.
Everyone who continues to learn is young,
no matter whether he counts 20 or 80 years.”

(Henry Ford)

Education connects the World!

Again this year, we could hardly save ourselves from inquiries in support of young people. Already in September, we had exceeded the “magic” 1,000 mark of sponsored “young talents”. In 2017, not only the number of “infatuated kids” for technology, but also the range of our activities has increased. Through our presence at various trade fairs and conferences, where we presented our innovative training approaches, we were asked by organisations from China and South America, among others, to promote education.

Our concepts were especially popular in two student summer camps that we organised in late July / early August in Shanghai and Beijing. At the closing event in Shanghai, the mayor of the 15-million-metropolis did not miss the chance to inform herself personally about the event. Both summer camps have been so successful that the next 20 student camps have already been planned. I would appreciate seeing the same determination in Germany as there is in China in order to make professional training equally consistent with technology and innovation.

The following Smart Farming Makeathon in Bogotá, Colombia, was at least as exciting as the two student summer camps in China. It took place at the renowned elite university “Universidad de los Andes”. 60 highly motivated students from four different universities and six countries made an excursion to a coffee field at the beginning of the Makeathon to get to know the problems of the local agriculture and to get inspiration for finding further topics.

The starting point for the contact to Colombia was the Smart Island Makeathon in Gran Canaria that we had already organised in February 2017. More than 160 participants

from 18 different international universities took part in this event, all of them highly motivated to further disseminate our “Technik macht Spaß - training virus” on return to their geographical environment.

This “viral” distribution concept that we have successfully applied for several years now does not only enable us to cross the oceans and reach other continents, it also works very well in Germany and Europe. As a result, we have an ever denser network of contacts that often does not only range from granddaughter to grandfather, but also transcends society across all hierarchical levels. Thus, the most diverse educational layers and political views are linked. Hence: Whether young or old, poor or rich, almost everyone is convinced that education is an important factor in life.

Enjoy reading!

Yours

Rainer Stetter



Dr. Rainer Stetter
Founder & Chairman

A True Story

Over a million refugees came to Germany in 2015. The huge numbers of refugees from crisis areas such as Afghanistan and Syria in the late summer of 2015 motivated us to help quickly. Through our foundation network, we got in contact with the Diakonie Riemerling through a teacher from the Secondary School Ottobrunn. There, a home had been set up for unaccompanied minor refugees.

Since language and education are the keys to integration, we have offered school-assisted internships and technical workshops for the youngsters. This is how we got to know Hussein, who in February 2016, as a 17-year-old, wanted to do a technical internship with us.

On the very first day of the presentation with the management Hussein directly asked for an apprenticeship in the first sentence. Impressed by his willingness and commitment, we decided to offer him a training position as a specialist in computer science. We quickly created the organizational framework because our company had not trained any trainees until then.



Together with students and co-workers of the TU Munich the idea that not only Hussein, but also other refugees can be offered an opportunity on vocational perspective was developed.

The project "Hussein & Friends" was born.

Hussein & Friends

In order to reach many more young refugees as quickly as possible, Hussein, Reza and other refugees, who have already been trained as technical coaches, have been going to residential homes and integration classes together with our German Lego Coaches and students since April 2016. Through this, they should be increasingly affected by the "snowball" effect as well as been inspired by "technology friends".

Since September 2016 Hussein (18 years, from Syria) and his friends Reza (22 years, from Afghanistan) and Manuel (23 years, from Munich) have been trainees at ITQ.

“ I want to understand today's technology.

Hussein, IT specialist trainee at ITQ from Syria



“ Hussein has inspired me with his fascination for technology.

Reza, IT specialist trainee at ITQ from Afghanistan

“ I want to pass on my knowledge and contribute to integration.

Manuel, IT specialist trainee at ITQ from Munich



Together they work on...

...the software of the future.

Integration through Technology

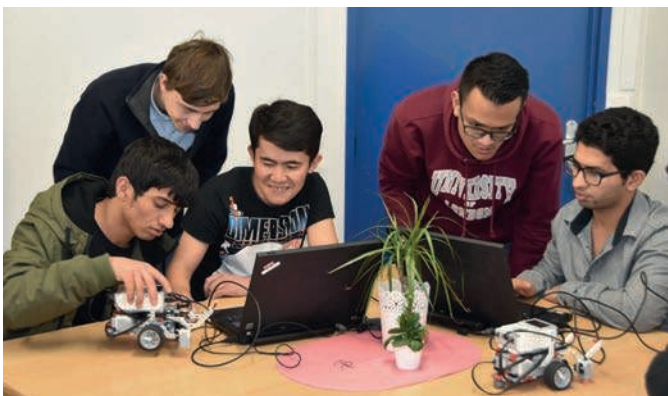
Among the refugees that come to Germany there are many young people. In order to offer them a perspective, the Gerda Stetter Foundation "Technik macht Spaß!" belonging to ITQ GmbH has launched the project "Hussein & Friends", which aims at integrating young refugees faster. It exemplifies an entry into education, training and thus integration into the labor market.

The goal is to bring the refugees closer to our world of technology and offer them training opportunities in technical professions. This creates perspectives for technology enthusiasts among the refugees.

The integration project "Hussein & Friends" not only drives the integration of refugees, but also help companies to find suitable trainees. According to IHK, there is a predominant shortage in technical occupations such as mechatronics and automation technology.



Integration Islands at LASER World of PHOTONICS 2017



Technology Workshop with young refugees in Garching

Refugee Camp Garching – 10.02.2017

- Technology Workshop with Lego Coaches: young refugees playfully explore technology
- The aim is to provide vocational training to young refugees to show perspectives in the field of technology

Handelsblatt Event – 16.05.2017

- ITQ was present with their integration project "Hussein & Friends" to serve as an example for other companies
- The event was initiated by Handelsblatt and the organization "Wir zusammen"

Tech Days – 23.06.2017

- Lego WeDo and Lego Mindstorms workshops for refugees and students to playfully introduce them to technology
- The aim is to provide refugees and students with vocational training to show perspectives in the field of technology

LASER World of PHOTONICS – 26.-29.06.2017

- Integration Islands: students and young refugees playfully come into contact with technology
- The aim is to provide refugees and students with vocational training to show perspectives in the field of technology

Starting Whistle Europe – Music and Football – 18.08.2017

- Hussein was invited to the event of the Center for Applied Policy Research to present the project "Hussein & Friends" and to report on his border experience, flight and arrival in Germany
- Music as well as football was played together while discussing Europe

"Wir zusammen" and Handelsblatt – 04.10.2017

- Invitation and speech by Dr. Stetter
- Successful integration of refugees in companies

Lions Club Mediterraneo – 11.10.2017

- Invitation and speech by Dr. Stetter and Hussein on Innovation and Integration
- Presentation of the project "Hussein & Friends"



Handelsblatt



Voices:

"In my life as an entrepreneur and driver of digitalization in German medium-sized companies, I meet many PowerPoint professionals but few doers. The German education system has to be adapted to the digital challenge and ITQ impressively demonstrates how it works. Passion and identification drive people and these elements are brought to life playfully here.

Chapeau, Germany needs more initiatives like "Technik macht Spaß" and more girls who enjoy technology. I am very much looking forward to presenting the topic to the German medium-sized companies as well as in German youth football clubs in the future."



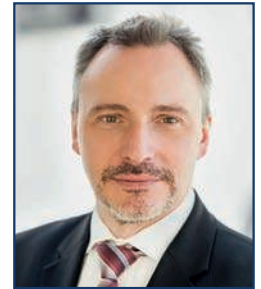
Norman Weiß
Founder ME Industries Group
Initiator Digitalakademie &
RB14 Digitalisierung.Mittelstand



"Making digital transformation tangible - from the basics, from small to large. Even my father-in-law at the age of 75 wants to have a smartphone. Here it becomes clear that it depends on how to pack a fundamentally difficult topic. An intuitive, playful concept facilitates the breakout of our analogue structures of thought. This approach also helps the industry, which is still having a hard time with digitalization. ITQ thus creates the special balancing act of carrying the digital into the analog world. Here you can simply feel the spirit of the lived digital transformation."



Dr. Andreas Böhm
Project Manager Technology
Lead Cluster Automotive
Bayern Innovativ



Jason Zhang
Managing Director of IAIT
President of IAIT China
Founder of China SGI Education

"The internationalization of education initiatives is in the spirit of the IAIT, as educational topics such as Smart Factory are currently very much in vogue in China. When IAIT and ITQ together reach target groups such as companies, universities and schools, this is a win-win situation for all participants of our actions. Fun, understanding of technology and strengthening trust-building events such as Makeathons and Summer Schools are the results whose need will always be there."



Thomas Nolting
CEO
IAIT-Institute for Automation and
Industry Technology GmbH



"Mechanical engineering is the most important engineering employer in Germany. Promoting young talent is therefore one of the core topics of the VDMA, in order to inspire young people for this diverse and exciting sector. At the beginning we stood alone with an idea, which then Dr. Stetter has courageously taken up. ITQ has developed an Industrie 4.0 demonstrator with students, which they presented to an international trade audience at the VDMA stand at the world's leading trade fair interpack. The response of the international audience to the demonstrator shown was overwhelming. It was an incentive for us to continue the excellent cooperation. I was impressed by the commitment of Dr. Stetter and how he has implemented this project with an international, interdisciplinary student team."



Richard Clemens
CEO
VDMA Food Processing and
Packaging Machinery Association



Voices:

“As a working student at ITQ, I had the opportunity to fly to Beijing and Shanghai for two weeks in summer as a Lego Coach during a summer camp to teach children from different social backgrounds Lego Mindstorms and Lego WeDo. During this time, besides the foreign culture, I also got a little insight into how projects are organized in China and how to integrate and work together in a team that is different from me. Furthermore, I realized that in the course of globalization, the general and technical education of future generations is not a local but a global challenge that we must master together.”



Ömer Tuncer
Working student
ITQ GmbH



“Dr. Rainer Stetter and his team understand how to communicate the fun not only in technology and digitalization, but also in the combination of both.

With a lot of heart and personal commitment Dr. Stetter advances digital education. He enthuses people of all ages with rousing lectures, great exhibits to touch and try out (like the cocktail mixer) or the cool Lego Mindstorms Zoo, with which the Gerda Stetter Foundation tours through schools and makes the MINT topics tangible for children. Also, the Makeathon in Gran Canaria was a real highlight for me with great team spirit and good networking opportunities. Experiencing how committed students can find answers to the challenges of our time in a critical and solution-oriented way in an extremely short time was unique.”



Jennifer Reinz-Zettler
Project Manager Technology
Automotive / Mobility
Bayern Innovativ



“When you tackle issues of the future, turn proven things upside down, and develop new things, you will first get headwinds from many sides, but there will also be plenty of energy on all sides. This was particularly noticeable in the cooperation of all those involved - ITQ and Messe München in particular - in the implementation of the first MAKEATHON and the “Integration Islands”.

Together, we have managed to quickly develop a new format for and at a trade fair that has never been seen in Europe before. We were able to inspire over 100 students who brought their own ideas to life within 24 hours at the fair. We also took the “old-timers” on a journey into their future and an impetus was set in the industry. The “Integration Islands” have shown that age, country and even language barriers no longer play a role, when young people work together on new developments and technology inspires them. This is live integration that cannot be better.”



Dr. Susanne Goehl
Team Lead Business Development
MESSE MÜNCHEN GMBH



“With a sixth grade of our middle school we visited the company ITQ in November. For the project “Technik macht Spaß”, the class was highly motivated and focused throughout the morning. My students quite enjoyed programming with Lego Mindstorms. Most of all, they would have stayed with them all day. The concept of the Lego Mindstorms Programming Workshop is an excellent project to interest students in technology”.

Maya Distel
Teacher
Middle School Ismaning



Our Training Concept

Inspiring youth for technology is the basis for ensuring qualified junior staff of German companies. The teaching of technical knowledge should be prepared in such a way that young people enjoy it and discover the technology for themselves.

The objective of the foundation is a comprehensive modular training concept. Inspiring youth for technology is the basis for this. Industry-related projects with universities and colleges of all kinds are suitable for bringing industry and education closer together.

Combining interdisciplinary lecture concepts and practice-oriented semester papers in collaboration with industry, students experience both project management and interdisciplinary knowledge.

Our activities focus on dealing with technical knowledge, practice with technical projects and their successful realisation. That's why we start with our technology courses at nursery school age.

With our Lego Mindstorms projects, as many young people as possible should be enthusiastic about science and technology at an early stage. Furthermore fears of complex technology could be reduced. The students being coached by students autonomously build acting robots, consisting of sensors, motors and many colorful Lego bricks. The foundation acts according to the top-down principle, that means the students supervise projects where they pass on their knowledge to secondary school students. In the next step, students who have been trained in a Lego team then supervise elementary students.

Modular Training Concept

Management



- The basics and meaning of systems engineering
- Understanding of mechatronical projects and processes

Trainees



- Foster fascination for technology
- Practical professional training

Engineers



- Improve knowledge about interdisciplinary work
- Enhance the use of software

Pupils



- Understand cause-effect relationships
- Foster team work and independent thinking

Students



- Soft skills and experience in project management
- Enhanced understanding of software

Children



- Learning with fun and fascination for technology
- First experience with mechatronics

Our Concept in Schools:

So that we can spread our ideas even better, we have developed the concept of student Lego Coaches for students, initially at the Technical University of Munich, and have since established them at several other universities. As part of the „Soft Skills Internship“, we offer students the opportunity to learn and apply the necessary soft skills using the example of a real interdisciplinary development task. To be able to deepen their knowledge, students coach students and also pave the way for them to be able to enter robot competition.

We pursue the goal of being motivated and well qualified. We train educated students as technical coaches who pass on their acquired knowledge to other students. Through this approach, we try to get as many other colleges and universities on board as possible.

When linking universities, we are getting a good deal closer to our goal of providing schools with motivated and well-trained coaches.

Institut für Werkzeugmaschinen und Betriebswissenschaften (IWB)
 Fakultät für Maschinenwesen
 Technische Universität München



Praktikum für mechatronische Entwicklungsprozesse und Projektmanagement

- Führe einen Entwicklungsprozess mit Hilfe von LEGO® Mindstorms® Robotern durch
- Leite eine Projektgruppe und werde selbst zum Projektleiter
- Messe Dich im Wettbewerb mit anderen Entwicklungsteams
- 4 ECTS als Hochschulpraktikum





Termine

Praktikumstermine: Di., 24.10.17, 13:00 – 17:00 Uhr
 Di., 07.11.17, 13:00 – 17:00 Uhr
 Mi., 15.11.17, 13:00 – 17:00 Uhr
 Di., 21.11.17, 13:00 – 17:00 Uhr

Projektmanagement: 48. KW (2017) – 06. KW (2018)

Wettbewerb: Di., 06.02.18

Kick-Off

24.10.2017
 13:00 Uhr – 17:00 Uhr
 Raum MW1301 (B4 „Toyota“)

Kalendereintrag:



Kontakt und Anmeldung:

- Anmeldefrist: 23.10.2017
- Kontakt: Alejandro.Magana@iwb.mw.tum.de
- Weitere Informationen im TUMonline
- LV-Nummer: 3567

In Kooperation mit:





Universities:




Technische Universität München




UNIVERSITÄT
DUISBURG
ESSEN




HOCHSCHULE LANDSHUT
HOCHSCHULE FÜR ANGEWANDTE WISSENSCHAFTEN




Technische Hochschule
Ingolstadt

Review of 2016

November 2016: Digital Education for Everyone!

"Digital Scavenger Hunt" accompanying the 10th national ITsummit Saarbrücken, November 16-17



November 2016: Hackathon Vollmer

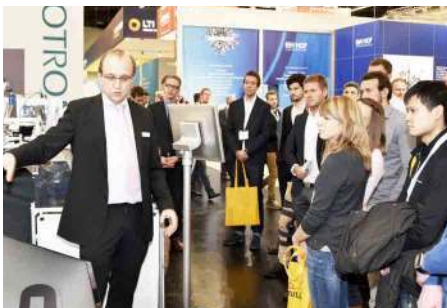
IoT Makeathon at ITQ in Garching, November 18



November 2016: SPS IPC Drives

sps ipc drives

Presentation of "Showcase Mi5" at SPS IPC Drives in Nuremberg, November 22-24



November 2016: Hackathon VDMA

Makeathon at ITQ in Garching, November 29



Review of 2016

November 2016: Technology Workshop with Pupils

Woodturning & Programming at Primary School Oberföhring, November 30



December 2016: Technology Workshop with Pupils

Technology Workshop Woodturning & Programming at Primary School Oberföhring, December 7



2017 in Pictures

February 2017: Robot Workshop Praktikum TUM

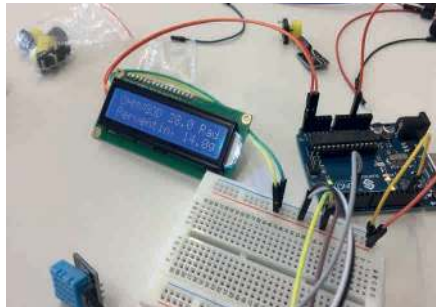
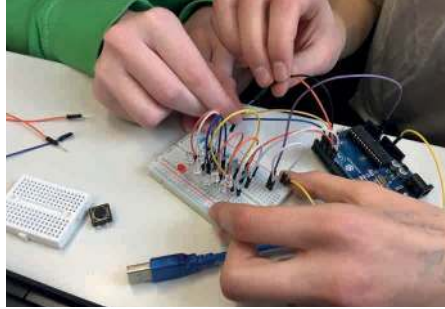
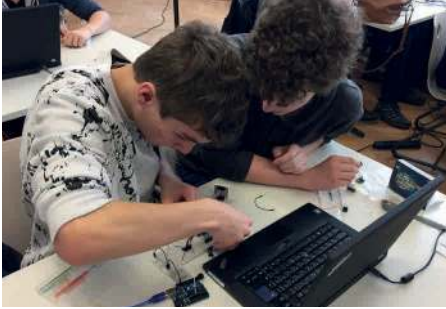
Robot Competition at quantum TUM in Garching, February 7



2017 in Pictures

February 2017: Robot Contest Arduinos & Raspberry Pi

Robot Competition with class year 10 at Goethe-Gymnasium Regensburg, February 7



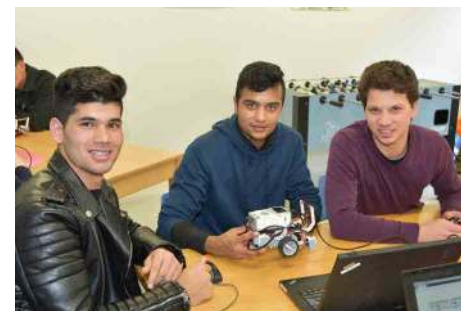
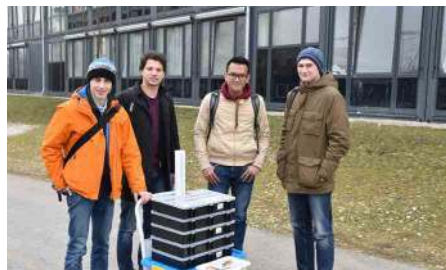
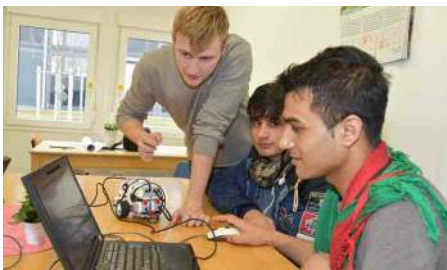
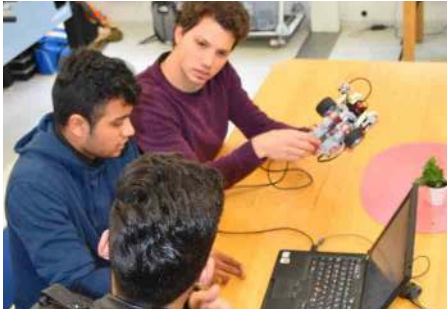
February 2017: Technology Workshop University Duisburg

Technology Workshop at Duisburg University, February 8



February 2017: Technology Workshop with Refugees **Hussein & Friends**

Technology Workshop at refugee camp in Garching, February 8



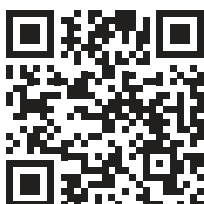
2017 in Pictures

February 2017: Makeathon on Gran Canaria

Smart Green Island Makeathon at the Innovation Lab, February 17-20



TV Report
www.youtube.com/ITQInfo



February 2017: Makeathon on Gran Canaria

Smart Green Island Makeathon at the Innovation Lab, February 17-20



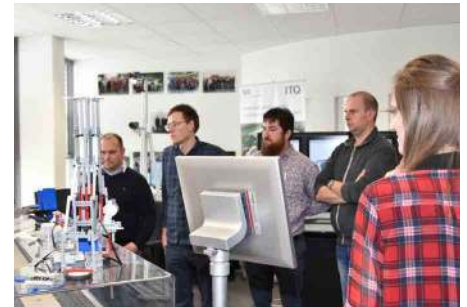
Makeathon Video
www.youtube.com/ITQInfo



2017 in Pictures

March 2017: Arduino Workshop

Workshop with vocational teachers at ITQ in Garching, March 15



April 2017: Lego Mindstorms Workshop

Workshop at Technology Centre West Bavaria (TCW) in Nördlingen, April 1



April 2017: ESF Technology Workshop

Workshop within ESF and Cluster Mechatronics at ITQ in Garching, April 4



April 2017: Czech Delegation

Visit of a Czech Expert Delegation "Industrie 4.0" at ITQ in Garching, April, 5



2017 in Pictures

April 2017: VDMA Hackathon

Mechatronics Hackathon at ITQ in Garching, April 24



April 2017: Chinese Delegation

Visit of a Chinese Expert Delegation "Industrie 4.0" at ITQ in Garching, April 26

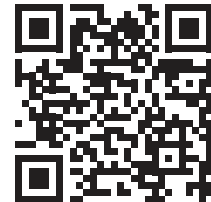


April 2017: Digital Congress - Visit of Minister Aigner

Presentation "Showcase Mi5" at BMW World Munich, April 28



Video ITQ „Showcase Mi5“
www.youtube.com/ITQInfo



April 2017: VHS Course Cleaning Robots

Cleaning Robots Course with Pupils at VHS Unterschleißheim, April 29

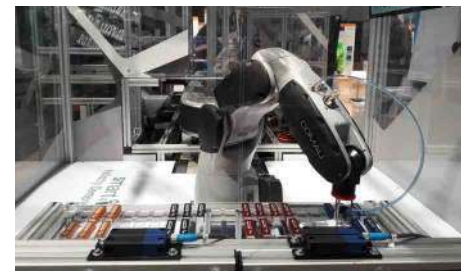


2017 in Pictures

May 2017: interpack 2017

Presentation of Industrie 4.0 Demonstrator "smart4i" in Düsseldorf, May 4-10

smart4i
Industry Demonstrator

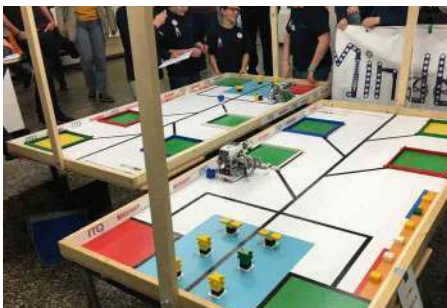


Video "smart4i Industry Demonstrator"
www.youtube.com/ITQInfo



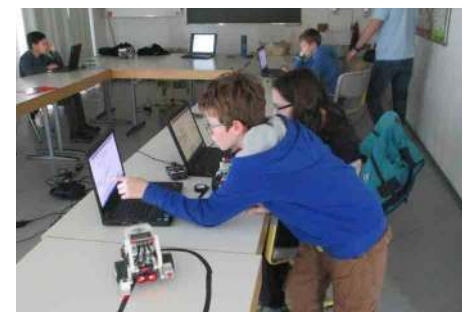
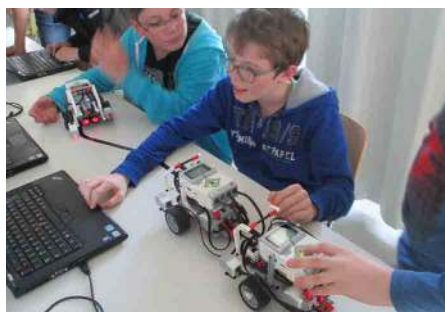
May 2017: WRO Secondary School Duisburg

World Robot Olympiad NRW at Mannesmann Secondary School in Duisburg, May 6



May 2017: VHS Workshop Lego Mindstorms

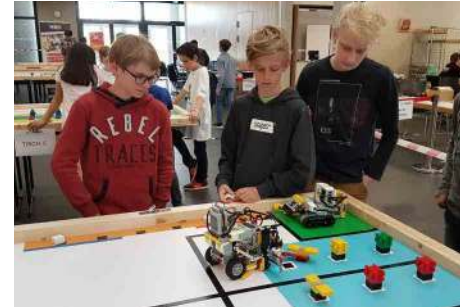
Cleaning Robots Course with Pupils at VHS Unterschleißheim, May 6



2017 in Pictures

May 2017: WRO Secondary School Buchloe

World Robot Olympiad at Secondary School Buchloe, May 13

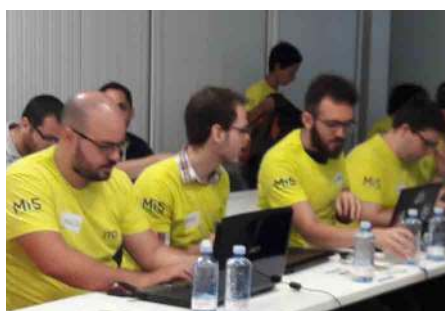


June 2017: Deep Learning Workshop Gran Canaria

Two-day Workshop at Dr. Stetter ITQ in Gran Canaria, June 10-11



Video Deep Learning Workshop
www.youtube.com/ITQInfo



June 2017: Lego WeDo Workshop

Technology Workshop at Eduard Spranger Elementary School in Munich, June 22



June 2017: Tech Days Munich "Digital Innovation"

Hussein & Friends

Lego WeDo and Lego Mindstorms Workshops with Pupils in Munich, June 23



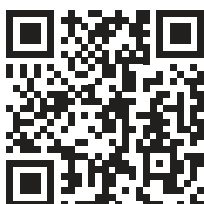
2017 in Pictures

June 2017: Makeathon - LASER World of PHOTONICS

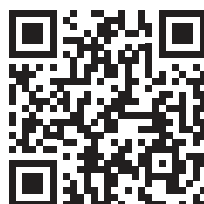
Make Light Makeathon at Laser World of Photonics Trade Fair in Munich, June 26-27



Video by ITQ "Make Light Makeathon"
www.youtube.com/ITQInfo



Video by Trade Fair Munich
"Make Light Makeathon"
www.youtube.com/ITQInfo



June 2017: Integration Islands - LASER World of PHOTONICS

Technology Workshop Stations for Pupils and Refugees in Munich, June 29



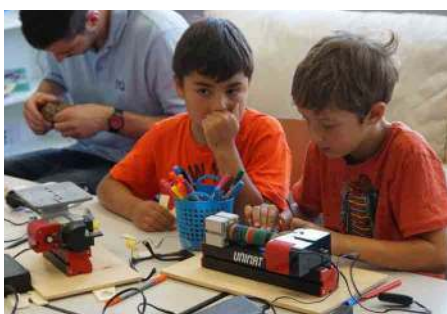
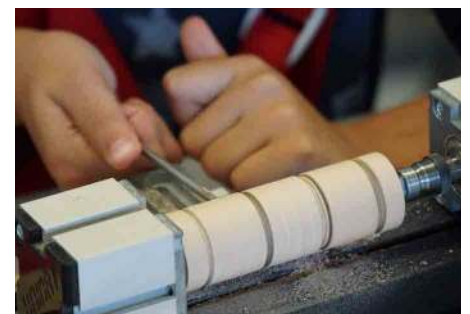
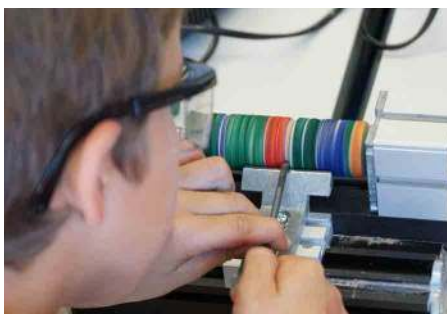
With a special space called "Integration Islands" at the Laser World of Photonics trade fair we aimed to show the benefits of innovation with regard to professional training, recruiting and integration of refugees. Young refugees and pupils as well as both young and old trade fair visitors were able to playfully explore different aspects of technology at various supervised learning stations. At each integration island there was an exciting technology project waiting for them, e.g. wood-turning or Lego WeDo. The goal was to teach people how to have fun dealing with technology as well as to introduce training opportunities.



2017 in Pictures

July 2017: Technology Workshop

Workshop at German-Italian Leonardo da Vinci elementary school, July 17



July 2017: Robotics Competition at Landshut University

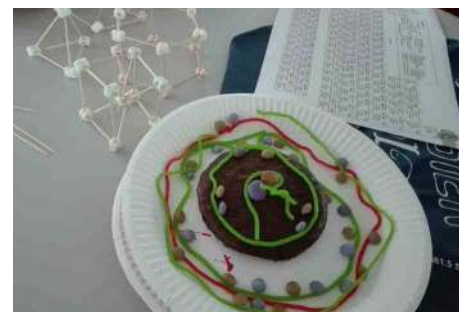
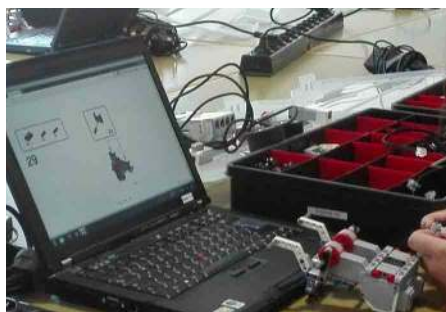
Robotics Competition as part of the Soft Skills internship at HAW Landshut, July 7



August 2017: Girls Do Technology

Technology Workshop at Technical University Munich in Garching, August 3-4

chen machen Technik mäd



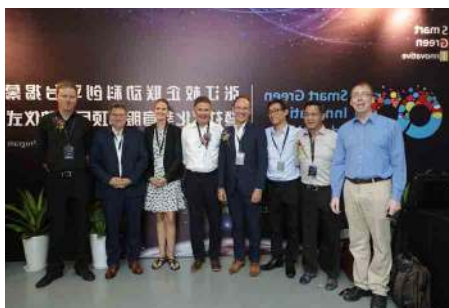
2017 in Pictures

July 2017: China Makeathon Summer Camp 2017

Technology Workshop with Chinese children in Shanghai & Peking from July 24 to August 4



Together with the German-Chinese organisation IAIT, ITQ has organised two Summer Camps in China between July, 24 and August, 4 2017. The first took place in Shanghai while the second was carried out in Beijing. Our Lego Coaches Manuel and Ömer have introduced children aged 9 to 14 years to Lego WeDo and Lego Mindstorms. Through this, children could learn a lot while having a lot of fun. At the same time, from July 29 until 31, ITQ and IAIT have also organised other activities such as China Makeathon Media Day or Makeathon Camp in Beijing.



Video China Makeathon Day 2017
www.youtube.com/ITQInfo



July 2017: China Makeathon Summer Camp 2017

Technology Workshop with Chinese children in Shanghai & Peking from July 24 to August 4

„SGI Education Program founded in China by IAIT (Institut für Automatisierung und Industrie Technologie) is inspired by Dr. Stetter and ITQ initiatives. It is our great pleasure to work with ITQ, partners and friends to implement SGI non-profit activities concerning SMART-GREEN-INNOVATION in China, like charity summer camps for needy students from poor regions, as well as non-profit campus program for China’s primary schools, middle schools and high schools. Meanwhile, SGI summer camps were also supported by China’s Government, Tongji University, University of Chinese Academy of Sciences. SGI Education will move ahead together with more Chinese corporate partners according to the original idea of Smart-Green-Innovation“.



Jason Zhang
 Managing Director of IAIT
 President of IAIT China
 Founder of China SGI Education



Video China Summer Camp conference
www.youtube.com/ITQInfo



2017 in Pictures

August 2017: Makeathon Bogotá, Colombia

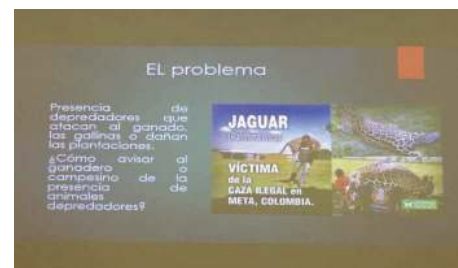
Smart Farming Makeathon in Bogotá, August 2-5



A total of 60 students has accepted the challenge to develop a prototype solving agricultural challenges of today during the first Smart Farming Makeathon in Bogotá (Colombia).



In only three days, they successfully managed to tackle these problems thanks to being supported throughout by the Faculty of Engineering (Universidad de los Andes) as well as Dr. Stetter ITQ.



Interview with Dr. Stetter:
El futuro es la programación
www.youtube.com/ITQInfo



August 2017: Makeathon Bogotá, Colombia

1st Smart Farming Makeathon in Bogotá, August 2-5



Live Report:

„The 1st Smart Farming Makeathon Colombia took place from 2-5 of August 2017 and was organised by the department of Mechanical Engineering of los Andes University and the company Dr. Stetter ITQ. The idea of the Makeathon at Bogotá was born in February 2017 when five students of los Andes University (Uniandes) and professor Giacomo Barbieri travelled to the Spanish island of Gran Canaria to participate in the Smart Green Island Makeathon. 60 motivated participants assumed the risk of designing a prototype in 3 days for trying to solve one of the agricultural challenges proposed by the WWF Colombia and the Centre for Studies of the Orinoquía (CEO). The most important outcomes were the interest generated in students for the digital topics and the links between academia and companies. This led to the creation of the Mi5 Bogotá student group. The Uniandes is already planning a new Makeathon in 2018 in which at least 1 farmer will be placed on each team of students.“

Mi5 Bogotá:

- Established in August 2017
- Student group of about 40 students, professors and professionals
- 7 teams are working on smart farming topics such as machine learning, big data, prototyping and computer vision
- An event will be organized in March 2018 in which students will show their results

Modern tools for automation:

- Course taught by professor Barbieri within the Mechanical Engineering Master Degree
- Uniandes and ITQ collaborated on the preparation of a few classes in order to provide an up-to-date and practical (with industrial case studies) education
- Students found the class very innovative. Hopefully in future they will apply these concepts to local companies



Prof. Giacomo Barbieri
Departamento de Ingeniería Mecánica
Universidad de los Andes

2017 in Pictures

September 2017: Technology Workshop at Kindergarten Noah's Ark

Woodturning and Cleaning Robots Workshop with pre-school children in Munich, August 4



September 2017: Playing & Doing Silly Things for Future Education

Technology Workshop for young and old at ITQ headquarters in Garching, September 12



September 2017: "SMART HOME" Summer Camp Gran Canaria

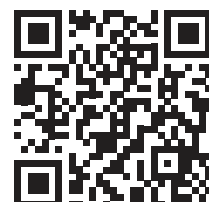
Summer Camp at Dr. Stetter Innovation Centre in Maspalomas, September 25-30



The first "SMART HOME" Summer Camp from September 25 to 30, 2017 in Gran Canaria has been received with great enthusiasm by all participants. During six days, students were able to enhance their knowledge and to develop innovative as well as smart prototypes related to SMART HOME, SMART LIVING, SMART GARDEN and SMART MOBILITY. For the first time, the summer camp has taken place at the new Dr. Stetter Innovation Centre that is located in Maspalomas in the south of Gran Canaria. The event was further supported by platinum sponsor AMK as well as various other renowned partners from the industry.



Video Summer Camp Gran Canaria
www.youtube.com/ITQInfo



2017 in Pictures

October 2017: Together we create the Future!

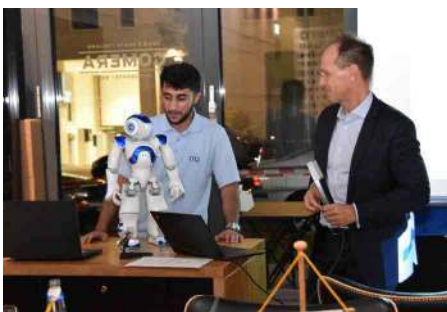
Panel discussion about successful integration at Porsche Museum in Stuttgart, October 4



October 2017: Lions meets Hussein & Friends

A talk on "Innovation and Integration" at Lions Club Mediterraneo in Munich, October 11

Hussein & Friends



October 2017: Makeathon ASA Group Italia

Mechatronics Makeathon at ITQ headquarters in Garching, October 12-13



October 2017: Lego Mindstorms Workshop

Technology Workshop with full-day class year 6 at Middle School in Ismaning, October 17



2017 in Pictures

October 2017: ITQ wins Audience Award with FillMeApp

24h Hackathon at Movilizer Days by Honeywell in Mannheim, October 17-18



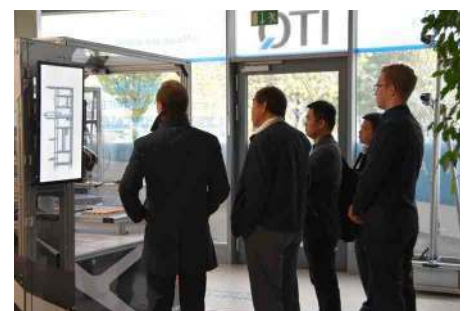
October 2017: Cleaning Robots Course VHS

Cleaning Robots Course with Pupils at VHS Unterschleißheim, October 21



November 2017: Visit of Chinese Delegation

Visit of Chinese Expert Delegation "Industrie 4.0" at ITQ headquarters in Garching, November 7



Our Activities in Duisburg

In 2009, Jörn Linke opened a branch in North Rhine-Westphalia with our Duisburg location. Since then, the one-man startup has developed into a small and great team of 10 highly-motivated young engineers, whom Jörn Linke was able to acquire through his numerous regional training activities.



At the heart of these activities is University Duisburg-Essen. There, we have already established a seminar on „Product Development“. This semester we also offer a new one dealing with „Planning and Development of Mechatronic Products“ at the Chair of Mechatronics in Duisburg labelled as „Smart and Green“. On February 9, 2017 we had a closing event related to the project „Introduction to Robotics“ which has been organised together with University Duisburg-Essen and which has so far been our biggest event with about 150 participants.



At the final competition called „Robolympics“ there were several secondary schools from Duisburg and Mühlheim that participated in teams of 10-15 pupils each. The small robots designed and programmed by the participants competed against each other in the following disciplines: mechatronic shot put, hurdles, bowling and 1k run.



This competition had been launched with the aim of arousing the participants interest for a professional career as engineers and it was accompanied by a varied framework programme. Within this project/seminar, more than 100 pupils were supervised by students of University Duisburg (DUE) as well as trained in the field of mechatronics and robotics. By this, they got well prepared for the final competition.



For the 35 students of mechatronics, the project is part of the seminar on „Soft Skills Internship for Mechatronic Development Processes“ and is designed to familiarize students with managing technical teams and to bring enthusiasm for technology to the schools.



ITQ GmbH is also a member of the Förderverein Ingenieurwissenschaften of the University Duisburg-Essen. We thank Dr. Fischer, Managing Director of the Förderverein, who has appointed Dr. Ing. Stetter, Managing Director of ITQ GmbH, to the Board of Trustees.

Feedback from Dr. Fischer:

„The Förderverein Ingenieurwissenschaften puts emphasis on its MINT activities supporting currently six Student and Junior Engineer Academies. The engineering academies – usually running for two years – are part of a network consisting of schools, colleges and companies. A maximum of 20 students are selected by the teachers and brought together in a team building seminar at the beginning.

When we first met during the Perspective MINT meeting on January 19, 2016, I was very impressed by the personal commitment Dr. Stetter brings to our activities as well as by the variety of other activities within the Gerda Stetter Foundation „Technik macht Spaß“.

This is a guarantee for future meaningful cooperation.“



Förderverein
Ingenieurwissenschaften
Universität Duisburg-Essen e.V.



Dr. Klaus-G. Fischer
General Manager
Förderverein Ingenieurwissenschaften
University Duisburg-Essen e. V.

UNI DUISBURG-ESSEN

Die „Robolympics“ begeisterten Duisburger Schüler

Marius Fuhrmann 10.02.2017 - 12:00 Uhr



Diese Schüler des Krupp-Gymnasiums in Duisburg-Bergheim Foto: Lars Fröhlich

DUISBURG. Am Wettbewerb „Robolympics“ der Uni Duisburg-Essen nahmen über 100 Schüler teil. 30 Master-Studierende betriehten die Gruppen.

Jugendliche im besten Teenager-Alter noch für Lego zu begeistern, das dürfte mitunter schwierig sein – es sei denn, man verpasst den bunten Steinen einen Motor und sensible Elektronik. Bei den gestrigen „Robolympics“ ließen über 100 Schüler aus Duisburg und Mülheim selbstständig programmierte Lego-Roboter in verschiedenen Wettkampfdisziplinen gegeneinander antreten. Mit der ITQ GmbH, einem Dienstleister für Software-Elektronik und Maschinen- und Anlagenbau, hatte die Universität Duisburg-Essen den Wettbewerb ins Leben gerufen.

Der Hörsaal des ST-Bereichs in Ruhrort verwandelte sich gestern in eine Kampfarena. In den sieben Wochen zuvor hatten rund 30 Master-Studierende des Fachbereichs Mechatronik Schulen besucht, um den Jugendlichen Grundlagen in Programmierung und Technik zu vermitteln.

Die Studierenden bekommen dafür Noten



Auch eine Gruppe der Gesamtschule Walsum nahm diesmal mit ihrem fahrbaren Roboter an den „Robolympics“ teil. Foto: Lars Fröhlich

„Es handelt sich dabei um ein Seminar in den Bereichen Produktmanagement, Soft Skills und Lego-Mindstorms, also den Robotern“, erklärte Jörn Linke, Leiter der ITQ-Niederlassung Duisburg. „Die Studierenden bekommen dafür

auch Noten. Eigentlich arbeiten sie immer mit Unternehmen zusammen. Es ist eher ungewöhnlich, dass es jetzt Schüler waren – die Zusammenarbeit lief aber sehr gut.“

Für das Projekt habe man sich schwerpunktmäßig an weiterführende Schulen mit gymnasialer Oberstufe gewandt. In Teams bauten die Schüler zusammen mit den Studierenden kleine Lego-Vehikel, um sie in Disziplinen wie Kegeln oder Slalom fahren gegeneinander antreten zu lassen.

Ein vielseitiges Rahmenprogramm

Neben den Wettbewerben fand ein vielseitiges Rahmenprogramm statt, bei dem die Jugendlichen sich am Lötkolben ausprobieren oder einen Fahrsimulator kennen lernen konnten. „Wir sind sehr zufrieden mit dem Verlauf des Wettbewerbs, überall sehen wir lächelnde Gesichter“, sagte Linke, der genau wie der Dekan des Lehrstuhls für Mechatronik, Professor Dieter Schramm, Vorträge über Ingenieurwissenschaften hielt.

Mit seinem Roboter „Bobi“ hat das Team des Landfermann-Gymnasiums zwei dritte und einen zweiten Platz belegen können. „Wir sind im Bereich Robotik ohnehin sehr gut aufgestellt und haben bereits im Vorjahr teilgenommen“, sagte Lehrerin Maria Frank. Dass die neunköpfige Gruppe diesmal ausschließlich mit Mädchen besetzt sei, liege an deren Zurückhaltung bei der Zusammenarbeit mit Jungen. „Wenn die Mädchen unter sich sind, trauen sie sich eher“, so Maria Frank.

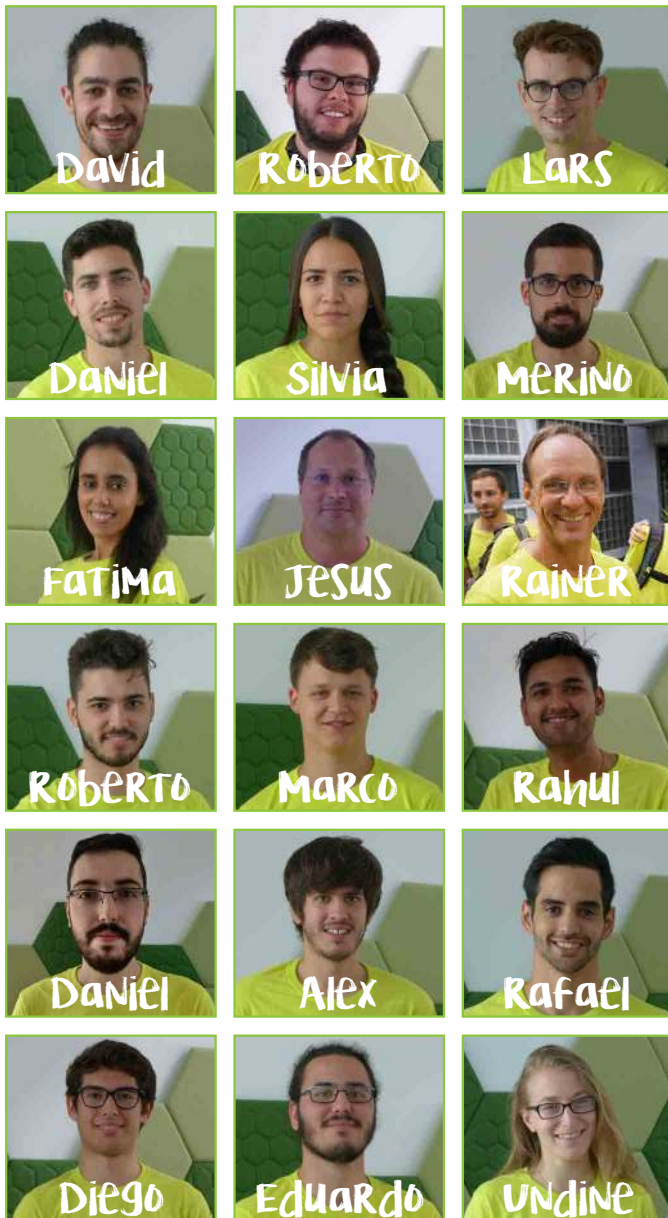
Auch sie zog ein positives Fazit: „Wir wurden von den vier Studierenden super betreut und haben erreicht, dass die Schülerinnen offener gegenüber dem Fach Informatik eingestellt sind.“

>> VIEL LOB AUCH VON SEITEN DER TEILNEHMER

Bei den Schülerinnen von Maria Frank kam das als AG angebotene Konzept gut an: „Ich finde es interessant, Sachen zu bauen oder zu programmieren“, sagte etwa die 13-jährige Lea Czerlinski.

Ihre gleichaltrige Freundin Kami Larsen ergänzte: „Mein Interesse an Technik hat die AG auf jeden Fall geweckt.“

Who we are



Our network



Dr. Stetter ITQ opened its offices in Gran Canaria at the end of 2016 as part of the Stetter Group, which is formed by ITQ GmbH, Software Factory GmbH and Dr. Stetter ITQ S.L.U. Each of the companies comprising the Stetter Group focuses on specific customer needs while together they guarantee a comprehensive handling of all aspects of modern software and systems engineering.

The company started with a team of young engineers in close cooperation with the local ULPGC university as well as with other European academies. In an inspiring environment the team lets its imagination run free and develops ideas prototypically. Within this “crazy thinking”, Dr. Stetter ITQ also organizes makeathons with a focus on smart, green and innovative products.

In the meantime, the team has grown significantly: We started in December 2016 with three engineering students and the current staff; in October 2017, is composed of 5 engineers and 8 students working on new and challenging projects. Our team of young, motivated and smart people, who care about what they do, is the key factor for our success.

Dr. Stetter ITQ in the media

- The great technological conclave

LA PROVINCIA
COMUNIDAD INSULAR DE GRAN CANARIA



- Rainer Stetter organizes the second Smart Green Island Makeathon in Gran Canaria



- First electrical cars exhibition in Canary Islands



- Promotion of the use of electric vehicles in Canary Islands



What we have done so far

smart \ green \ innovative

1st Robotic Workshop



2016

May

1st Smart Green Island Makeathon



Sep

2nd Smart Green Island Makeathon



Feb

2nd Robotic workshop



Feb

Fair Interpack



2017

May

Fair Agriculture Concurso Exposición



May

Deep Learning Workshop



Jun

Fair Electrical Cars Movelec



Jul

Smart Home Summer Camp



Sep

GASTKOMMENTAR

Unsere Welt besteht aus vielen Welten

Smart Green Innovation und erster Smart Farming Makeathon. Die letzten Wochen waren sehr intensiv und haben uns (ITQ) mal wieder gezeigt, dass Bildung der Schlüssel zum Erfolg ist. Vom 24. Juli bis 4. August 2017 haben wir die Smart Green Innovation unterstützt – Summercamps in China, die in der ersten Woche zunächst in Shanghai und in der zweiten Woche in Peking stattfanden. Quasi zeitgleich zu dem Event in Peking fand der



erste Smart Farming Makeathon in Bogotá (Kolumbien) statt. In beiden Fällen wurden wir von jeweils lokal agierenden Organisationen gebeten, unsere Ausbildungskonzepte gewissermaßen um die Welt zu tragen. In China haben wir Kinder zwischen neun und vierzehn Jahren mit unseren Lego Mindstorms und Lego WeDo Workshops begeistert und in Kolumbien wurden unsere Makeathon Konzepte übernommen, damit sich Studenten Gedanken über smarte Farming-Konzepte machen und in erste Prototypen umsetzen.

Von DR. RAINER STETTER, Geschäftsführer ITQ GmbH, Garching bei München

Beide Veranstaltungen sind von der lokalen Politik mit Begeisterung aufgenommen worden. In Shanghai ließ es sich die Bürgermeisterin der 15 Millionenstadt nicht nehmen, persönlich zu erscheinen, weil innovative Konzepte zur Heranführung der nächsten Generation für China von großer Bedeutung sind. Für die Verantwortlichen der deutsch-chinesischen Organisationen der IAIT war wichtig, die Kinder zu trainieren, frei zu denken.

Dieser Ansatz frei von Vorgaben an ein Thema heranzugehen, ist für China, das normalerweise durch sehr klare Rollenbilder und streng hierarchische Abläufe geprägt ist, sehr neu. Jedoch ist dieses „freie“ Denken aus Sicht der Verantwortlichen eine wesentliche Voraussetzung, um zu erreichen, dass China in 2025 weltweiter Vorreiter in Sachen Innovation (insbesondere im Bereich Manufacturing) wird. Die Events sind so erfolgreich gewesen, dass bereits die nächsten 20 Innovationscamps geplant wurden. Ich würde mir sehr wünschen, dass man auch in Deutschland die gleiche Entschlossenheit an den Tag legt, um die Ausbildung in unseren Breitengraden ähnlich konsequent auf Technik und Innovation zu trimmen – so wie in China.



Smart Green Innovation: Technik Workshop in Shanghai. Wer Inspirationen und Beispiele für neue Wege in der Ausbildung sucht, sollte am besten mal auf www.technikmachtspass.org, www.projectMi5.com oder dem www.youtube.com/user/ITQInfo schmökern.

In Kolumbien wurde der Makeathon an der renommiertesten Universität des Landes, der Universidad de los Andes, durchgeführt. Diese Privatuni lässt hinsichtlich Ausstattung und Lehrinhalten im Vergleich zu europäischen Universitäten keine Wünsche offen. Der Campus ist herrlich am Stadtrand von Bogotá gelegen und ist wunderbar gepflegt. Die Gebäude sind architektonisch gut in das Umfeld eingebunden und verbinden in sehr ansprechender Weise Tradition und Moderne. Zu Beginn des Makeathons wurden die insgesamt 60 Studenten, die von vier verschiedenen Universitäten und aus sechs Ländern stammten, in ein Kaffee-Feld gefahren, um dort direkt vor Ort die Problem-

stellungen der dortigen Agrarwirtschaft kennenzulernen. Eine sehr gut funktionierende Agrarwirtschaft ist für Kolumbien von außerordentlicher Bedeutung, da durch den „Verfall“ des Ölpreises die agrarwirtschaftliche Leistung für die Ernährung der Bevölkerung wichtig ist. Zudem können nur durch die Agrar-Exporte die gesunkenen Einnahmen durch Ölexporte (etwas) kompensiert werden.

Mit Hinblick darauf, dass die beiden Austragungsorte an die 20.000 km auseinanderliegen, war ich in den letzten zwei Wochen quasi mehr in der Luft als am Boden, jedoch wurde mir in dieser extrem konzentrierten Form, die Welt zu sehen, nochmals klar vor Augen geführt, dass

unsere Welt aus sehr unterschiedlichen Welten besteht. Gleichzeitig wurde sehr klar, dass sowohl für China als auch Kolumbien das Thema Bildung von großer Wichtigkeit ist. Die Strapazen dieser Reisen wurden aber durch die glänzenden Augen der chinesischen Kinder und dem überaus großen Enthusiasmus der lateinamerikanischen Studenten und Firmenvertreter kompensiert.

Smart and Green

Was auch sehr interessant war, ist der Umstand, dass sowohl im Osten als auch Westen dieser Welt Smart and Green von großer Wichtigkeit ist. Um diese zu verstehen, muss man sich in Shanghai oder Bogotá nur an den Straßenrand stellen und die „Luft“ einatmen. Hier stoßen vorbeifahrende LKWs und Busse noch enorm viel Schmutz aus. Im Vergleich dazu muten Diskussionen zum Thema Diesel hierzulande fast schon ein bisschen kafkaesk an. Das Thema Bildung erscheint mir in Deutschland trotz aller Diskussionen eher Randthema zu sein, wohingegen es in anderen Welten Innovationstreiber ist. ■

Mehr Informationen
www.itq.de

GASTKOMMENTAR

Geht die Digitalisierung der Welt zu schnell?



Über viele Jahre wurde in Deutschland, vielleicht sogar in ganz Europa die fortschreitende Digitalisierung (Software-isierung) der Welt entweder negiert, nicht wahrgenommen oder schlicht einfach ausgeblendet. Inzwischen greift aber selbst der Spiegel in der Ausgabe vom 1. April – ich hoffe, dass es sich dabei nicht um einen Aprilscherz handelt – das Thema Digitalisierung beziehungsweise die Geschwindigkeit der Digitalisierung als Titelthema auf. Wie in so vielen Diskussionen, die man derzeit in den verschiedensten Medien so verfolgen kann, sind die (bösen) Jungs in den blauen T-Shirt (Mark Zuckerberg läuft immer so rum) aus dem Silicon Valley Schuld daran, dass sich alles so schnell ändert und der Rest der Welt die Opfer sind.

Von DR. RAINER STETTER, Geschäftsführer ITQ GmbH, Garching bei München



Es stimmt, dass die Geschwindigkeit der Veränderung oft kaum noch zu erfassen ist. Es stimmt auch, dass sich viel ändert und die Veränderung der Technik auch stark auf unsere Gesellschaft wirkt. Dies ist aber kein neues Phänomen. Durch die Einführung der mechanischen Dreschmaschine (1786) wurden ganze Heerscharen von Dreschern arbeitslos. In deren Wut über den Arbeitsplatzverlust haben französische Drescher ihre Holzschuhe (sabot) in die Maschine geworfen und damit die erste Sabotage in der Zeitgeschichte ausgeführt. Genauso wenig wie den Dresch-Arbeitern diese gravierende Änderung gefallen hat, werden auch uns die zukünftigen Änderungen gefallen. Jedoch werden auch wir genauso wenig wie Drescher die Veränderungen nicht aufhalten

können. Auch der Appell des Spiegels darüber nachzudenken, wie man die Geschwindigkeit der Digitalisierung verlangsamen kann, wird wohl wenig fruchten. Das wäre das erste Mal in der Menschheitsgeschichte, dass sich der Mensch selbst in seinen Möglichkeiten beschränkt.

Also bleibt eigentlich nur die Frage, wie kann man mit den Folgen der Digitalisierung und der in vielen Fällen damit einhergehenden Automatisierung von Arbeitsvorgängen, die vorher von Menschen getan wurden, umgeht. Denn wenn viele Arbeitsplätze in kurzer Zeit wegfallen, hat es schon in der Vergangenheit große soziale Verwerfungen gegeben.

Die Losung „America first“ ist die jüngste Ausprägung davon. Geschichtlich gesehen ist diese Losung, allerdings nicht die erste

dieser Art und wird vermutlich auch nicht die letzte sein. Eine Lösung der Problemstellung der wegfallenden Einkommen durch eine Besteuerung der Automatisierung mag ein Ansatz sein, so wie es Bill Gates vorgeschlagen hat. Das bedingungslose Grundgehalt für jedermann mag eine andere Art sein damit umzugehen. Während diese beiden Konzepte noch in der Überlegungsphase sind, ist der Ansatz auf Bildung zu setzen, nicht unbedingt neu. Aber wenn dieser Ansatz wirklich konsequent umgesetzt wird, scheint er durchaus erfolgsversprechend zu sein. Dass in diesem Fall allerdings unser Bildungssystem komplett neu ausgerichtet und kurzfristig viel in digitale Bildung investiert werden muss, ist aus abstrakter Sicht unstrittig, aber in der Umsetzung ein nahezu ausweg-

loses Unterfangen, da es insbesondere in Deutschland sehr wenig „Software-Affinität“ gibt.

Ganz anders aber verhält sich China. Dort wird massiv in die Ausbildung der Jugend in Digitaltechnik investiert. So werden beispielsweise generalstabsmäßig Summercamps durchgeführt, wo verschiedenste Formen von Programmiersprachen systematisch bereits im kindlichen Alter vermittelt werden. Ob man das gut findet oder nicht, ist auch wieder strittig.

Gleichwohl wird aus meiner Sicht die Fähigkeit programmieren zu können, in Zukunft genauso wichtig sein wie im Mittelalter es durchaus entscheidend war, ob man lesen und schreiben konnte. ■

Mehr Informationen
www.itq.de

SGI少儿科创夏令营开营啦

http://mp.weixin.qq.com/s/_ZqLrP018FoRhagZIG2FMw

SGI少儿科创夏令营开营啦

2017-07-27 SGI 中欧教学观察

7月24日，SGI少儿科创夏令营开营日。



对于许多当天从清晨开始就兴奋的起床收拾行李的小营员来说，上午的报到、入营等准备工作只是一个预热，下午的开营仪式才真正是夏令营新生活的开始。



长着大胡子的Manuel老师和Oemer老师，漂亮的Anna老师，和蔼可亲的Shawn老师、Sky老师和Snird老师.....小朋友们一下子就喜欢上了这些可亲可爱的老师。



青少年科技营打造“绿色智能岛屿” [【查看原图】](#)



学生们聆听来自本田公司的专家进行的讲座。记者王迪摄

1 2 3 4

来源：人民网-国际频道 2017年02月24日08:27

人民网马德里2月23日电（记者王迪）由德国先进工业科技研究院与德国ITQ高科技公司共同举办的青少年科技营活动于2月17日至20日在西班牙大加纳利群岛举行，共有85名来自德国、西班牙、奥地利、玻利维亚等国的大学生参加了活动。

本次科技营以打造“绿色智能岛屿”为主题，聚焦“绿色”、“智能”科技，受邀参加活动的西门子、本田、特斯拉等来自德国、日本、意大利的知名企业带来了各自的问题，希望大学生们发挥创造力，提出方案并动手制作产品模型。

头脑风暴席卷会场，学生们自由选择制作主题并组成小组，自动拾取海岸垃圾船、全自动无人驾驶帆船、海水净化仪等方案纷纷呈现出来。

参加活动的大学生大多是第一次报名此类活动，这是一次难忘的、收获丰富的经历。来自德国的物理系大学生马克西米利接受记者采访时说，参加科技营之前，他特意了解到大加纳利群岛每年要花费近100万欧元来捡拾海上垃圾，每天拾取的垃圾重量高达800吨，因此，他提出要制造一种能自动拾取近海岸垃圾的船只，不仅能够自动探测垃圾，还要能防止错误打捞海里的鱼类。

马克西米利认为，这类科技营是对大学教育一项很好的补充。“在学校里，我们大多学习的是理论知识，很少有机会实践，更不用说将自己在不熟悉领域的想法真正动手去做出来。比如，此前我并不太了解3D打印技术以及人工智能，然而要将理想模型制作出来，就必须使用这些技术，在指导员、同组成员及其他组成员的帮助下，我学会了3D打印，又借用了机器人制作小组的智慧，通过合作互助我们最终实现了这一想法。”马克西米利说。

德国ITQ高科技公司总裁斯坦特博士对记者表示，目前，几乎世界各地都面临环境污染问题，我们希望能够为此做点实事，并鼓励年轻人能够大胆地发声，为地球的未来发挥创造力。斯坦特博士表示，希望这样的科技营能够为高科技企业与高科技人才直接架起桥梁，帮助企业发现有创造力的学生，也帮助学生找到适合自己发展方向的企业，从而将智慧最大化，发明创造出有益于人类社会、有益于环境保护的产品。

这是此类科技营第一次在德国以外的地方举行。德国先进工业科技研究院负责人托马斯·诺尔丁向记者介绍说，我们得知中国政府正在号召青少年科普教育并制定了智能制造2025计划，因此，我们也希望将这一青少公益科技活动引进中国进行推广实施，并计划今年暑假在北京和上海两地与教育局及共青团委一同举办此类公益性的中德青少年科技夏令营。

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Sponsors wanted:

Share and take our vision to the next level: By 2021, we aim to establish a technology working group in every kindergarten and in every school in Germany! Through our "Lego Mindstorms project" we have already been able to visit numerous schools and to playfully teach young students basic technological skills in order to generate enthusiasm for research and technology at an early stage. Thus, we are looking for sponsors, companies as well as private individuals to support other schools and kindergartens.

Our concept is based on a high-tech kit called Lego Mindstorms that we use to playfully introduce teams of pupils to technical problems. Led and supervised by some of our students, youngsters can focus and concentrate on their individual work and do not only „play around“. Finally, they might also enter some of the well-known contests, e.g. First Lego League or World Robot Olympiad.

We are looking for companies that want to build new school teams who attend special competitions in this field – either together with us or by themselves.

We are happy about any engagement!

If you would like to support us with a donation, we will gladly issue a donation receipt. The foundation is officially recognized as non-profit organisation by the Government of Upper Bavaria (Foundation No. 12.1-1222.1 M/T 24).

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Ausbildung und Studium bei AMK

Als Visionär war Arnold Müller stets bereit, neue Wege zu beschreiten und seine Mitarbeiter dafür zu begeistern. So ist auch über fünf Jahrzehnte später noch diese Leidenschaft spürbar, wenn mehr als 900 Mitarbeiter ihre Ideen und ihr Know-How einsetzen, um Kunden in Maschinenbau und Automobilindustrie den entscheidenden Vorsprung zu verschaffen.

Der Erfolg von AMK beruht im Wesentlichen auf der Leistungsbereitschaft seiner Mitarbeiter. Es gilt das Prinzip der Verantwortung, das Leistung fordert, aber gleichermaßen auch honoriert. Flache Hierarchien ermöglichen es so auch Nachwuchskräften, schnell in die Verantwortung für spannende Herausforderungen des Marktes hineinzuwachsen. Die Ausbildung von eigenen Nachwuchskräften spielt bei AMK eine große Rolle. Das zeigen

zahlreiche Zertifikate und Auszeichnungen. Die AMK-Azubis belegen regelmäßig vordere Plätze in den Leistungswettbewerbender Industrie- und Handwerkskammern. So stellte AMK in den vergangenen Jahren gleich mehrere Kammer- und Landessieger in ihren jeweiligen Berufsbildern. Und nicht zuletzt machen Faktoren wie die günstige geografische Lage und die Erreichbarkeit mit öffentlichen Verkehrsmitteln AMK zu einem beliebten Ausbildungsbetrieb bei den Jugendlichen der Umgebung.

Auch die Zusammenarbeit mit Hochschulen ist ein wichtiger Baustein in der Nachwuchssicherung. Das Augenmerk bei AMK liegt dabei ebenso auf Studenten im Dualen System, wie auch auf der Vergabe von Praktika und der Verbesserung der Studienbedingungen an Hochschulen.

Die Formula Student Electric wurde von Anfang an von AMK unterstützt, weil sie die eigene Firmen-philosophie so schön plakativ darstellt: Spitzenleistung durch Innovation. Viele Rennteams fahren zwischenzeitlich mit Antriebspaketen von AMK und verfügen dadurch über den richtigen „Drive“.

Auch nach der Übernahme durch die chinesische Zhongding Group bleibt die AMK-Unternehmensgruppe mit seiner lebendigen Unternehmenskultur in der Region verwurzelt. Zusätzlich wird die internationale Ausrichtung durch die Zugehörigkeit zur Muttergesellschaft ZD Sealing Parts Co. mit weltweit 14.000 Mitarbeitern gestärkt. Mit einem Jahresumsatz von 1,6 Milliarden Euro in 2015 gehört ZD zu den größten familiengeführten Unternehmen Chinas.

Die globale Vernetzung ermöglicht den Nachwuchskräften auch Erfahrungen in Praktika und Berufstätigkeit im Ausland zu sammeln. AMK bietet folgende Ausbildungsberufe und Studiums an:

Ausbildung:
Elektriker – Geräte und Systeme
Elektroniker – Maschinen- und Antriebstechnik
Industrie Kaufmann
Mechatroniker
Zerspanungsmechaniker
Technischer Produktdesigner

Studium:
Bachelor of Arts (DH) – BWL-Industrie
Wirtschaftsingenieur – Maschinenbau
Wirtschaftsingenieur – Elektrotechnik
Studium nach dem Ulmer Modell

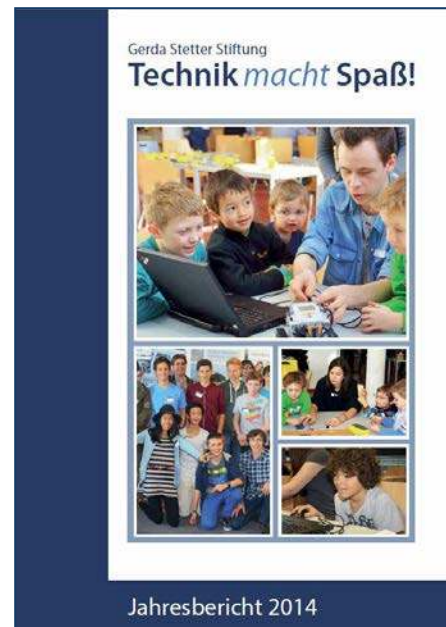
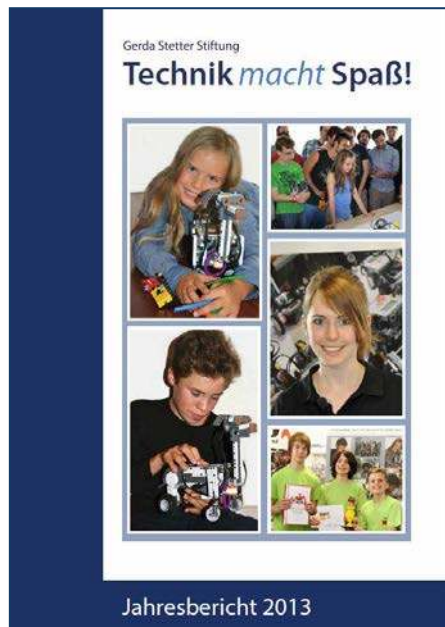
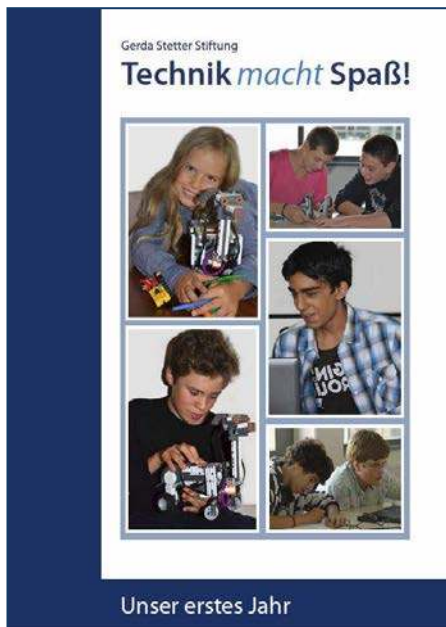


Statement Geschäftsführer der AMK-Gruppe Dr. Ulrich Viethen:
Die Zukunft des Industriestandortes Deutschland liegt in qualifizierten Arbeitskräften. Deswegen setzt die AMK Gruppe seit langer Zeit auf die Ausbildung junger Menschen. Dies beginnt bei der Förderung der Stiftung „Technik macht Spaß“ und dem Engagement von AMK Mitarbeitern bereits in Schulen, über die Ausbildung in kaufmännisch und technischen Berufen bis hin zum Dualen Studium. Auf diesem Wege können wir den Wandel in der Arbeitswelt, der Digitalisierung und Automatisierung sowie der Elektromobilität mitgestalten und bedarfsgerecht für die AMK Gruppe ausbilden.
Foto: AMK/Ferdinando Iannone



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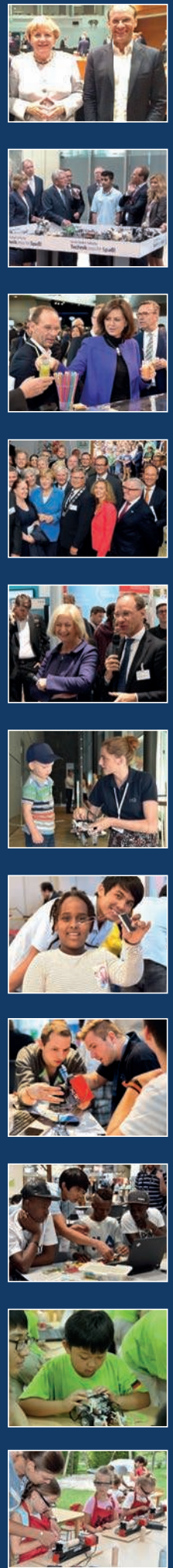
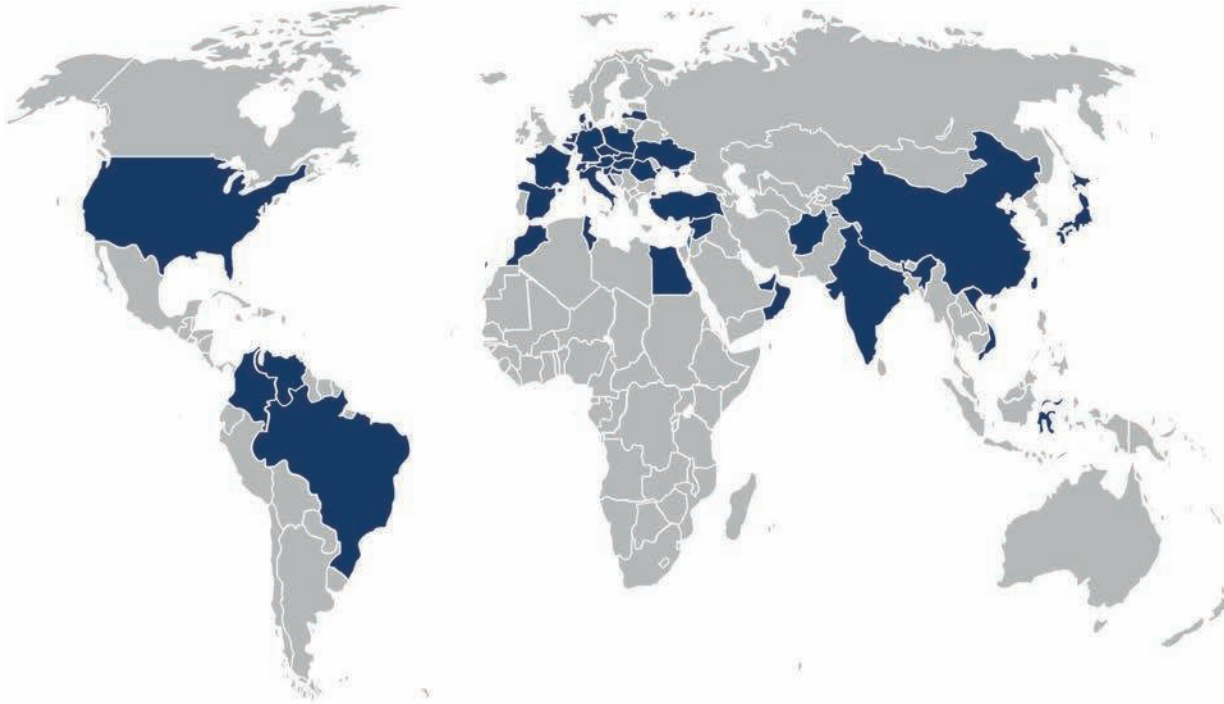
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