

Press Release
ITQ at SPS, 23.-25.11.2021 (hall 6, stand 240)

Press Release SPS 2021

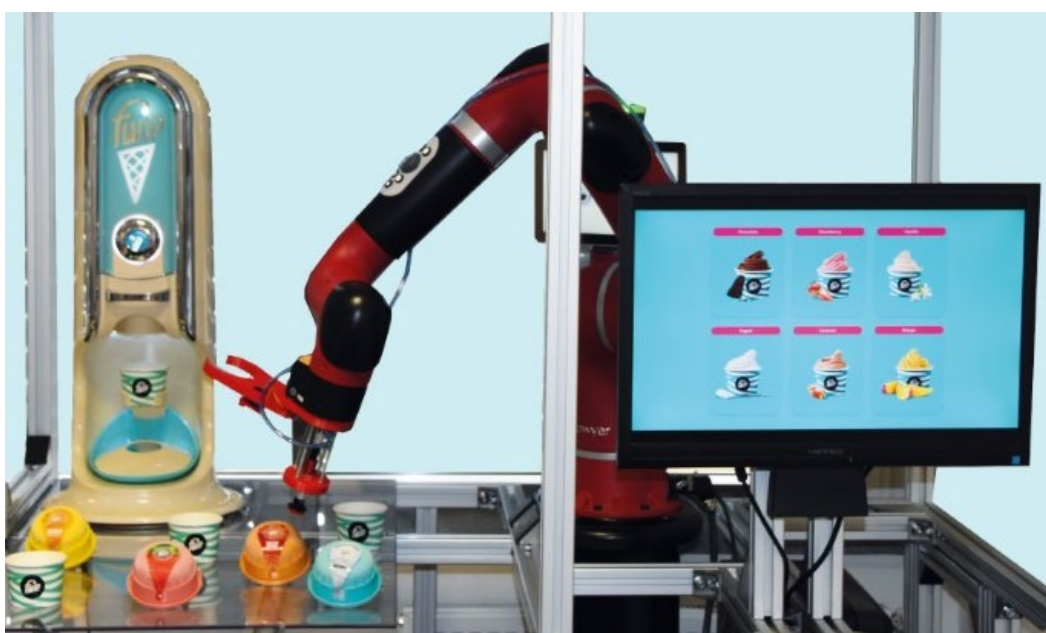
Collaborative robots: The intelligent ice cream machine

From November 23.-25, 2021 ITQ GmbH will present an intelligent and collaborative trade fair demonstrator at this year's SPS as a result of innovative and sustainable training concepts as a driver for the automation industry.

Garching, November 09, 2021 – Once again, ITQ GmbH presents itself at the collective stand of **Bayern Innovativ (hall 6, stand 240)** during the **SPS from 23 to 25 November 2021**. The new **"Fwip Ice Demonstrator"** will be showcased. This demonstrator is a new project of ITQ, which has placed the focus on **intelligent collaboration** between robots. The constellation consists of a **"Rethink Sawyer Robot"** and an **Ice Cream Machine from "Fwip"**.

Visitors to the trade fair can select a type of ice cream via a display. The ice cream is then squeezed and served by the machine, while the spectators can closely follow the robot's movements, from the precise placement of the ice cream cup to the squeezing of the ice cream.

The "Rethink Sawyer Robot" automatically inserts an ice cartridge in the ice cream machine using a **Vacuum Gripper** into the provided drawer and opens and closes it independently. With the **help of Neopixels and LEDs** the movements of the robot are made visible to the viewer through light animation. The visitors thus become witnesses of the latest technological standards in the field of **automation and collaboration** of robots.



Picture: The intelligent ice machine – „Fwip Ice Demonstrator“

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The "**Fwip Ice Demonstrator**" is a student project involving two young students whose task was to equip the **Fwip Ice Cream Machine** with new motors, sensors, and software. The project is part of our **Young Talents Education 4.0 Program**, which aims to prepare young people for today's job market by teaching them personal responsibility and project management.

At the **collective stand of Bayern Innovativ** interested fair visitors can obtain comprehensive information about ITQ GmbH on the topics of Software and Systems Engineering as well as on innovative training concepts in the sense of **Education 4.0**.

Promoting new training concepts

In the age of **Industrie 4.0 and Education 4.0**, new innovative corporate and training concepts are needed. To meet the technological requirements of software intensive, mechatronic systems and products, companies need suitable structures, sophisticated development processes and motivated well-trained employees.

Recruiting and retaining them is one of the most important tasks of a company nowadays. **Industry-related projects with national and international universities and colleges** of all kinds are suitable for bringing industry and higher education closer together. If these are taught with a technologically very demanding, but at the same time also "**playful**" content, everyone will benefit from it.

In addition to practical training, students (young talents) can also benefit from gathering first experiences in project management and working across different disciplines. Companies benefit from the **enthusiasm** and **future orientation** of the "**Digital Natives**". All in all: Recruitment and practical training during studies – a win-win situation for both sides.

About ITQ GmbH

Founded in 1998, ITQ GmbH is an independent engineering and consulting company with a focus on automation, mechanical and plant engineering. The experienced team of experts specializes in interdisciplinary problem solving related to software and systems engineering. Its core competencies include software engineering (analysis, design, implementation, testing) and process improvement as well as project and crisis management as well as consulting and coaching.

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A special concern of ITQ is both requirements-oriented and forward-looking training as well as continuing education concepts, which already start with the younger generations. Therefore, the company promotes young academics in practical study projects as well as technical workshops for children, pupils and students through their Gerda Stetter Foundation – Technology is fun!

Characters (incl. spaces): 4.350

Characters (excl. spaces): 3.700

More Information:

[ITQ GmbH](#)

[Education 4.0 Projects](#)

Photo Material:

[Fwip Ice Demonstrator](#)

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