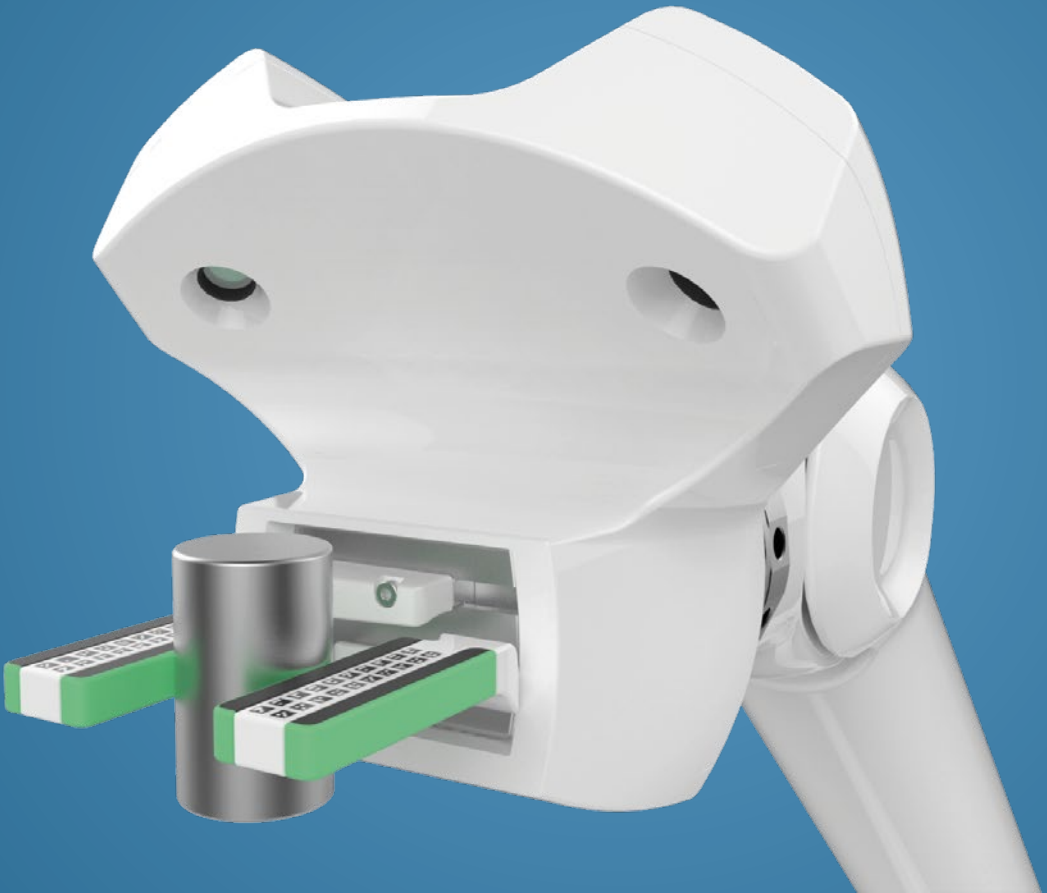




INTELLIGENT GRIPPING SYSTEM

A SINGLE GRIPPING SYSTEM TO HANDLE VARIOUS PARTS



CHALLENGE

Today's solutions for grasping are very inflexible:

- Fingers need to be specifically adapted to a each and every part
- Parts have to be placed at exactly the right positions
- Feedback from the grasping process is very limited

This leads to high costs for small and medium production batches due to the necessity of:

- Various gripping systems which all require cost-intensive adaptation and integration
- Complex feeding systems which are expensive and inflexible
- The design, assembly and programming of various sensors into the grasping application

OUR SOLUTION



ROVI SENSOR SOFTWARE provides rich sensor feedback



Highlights

- Fully integrated cameras and tactile sensors
- Versatile grasping of different parts with the same gripping system (e.g. different sizes, shapes, fragilities, weights)
- Rich sensor and process data, including tactile feedback from the fingers
- Object recognition and localization based on the stereo-camera system (optionally available)
- Quality and process control (optionally available)

BENEFITS



EASE OF USE

... because only one gripper is required for different parts and due to the user friendly plug & play software.



SAVE COSTS

... for feeding systems, tool exchange systems, integration, adaptation and robot programming.



HOLISTIC DATA GENERATION

... to be used for integrated quality control of parts and for monitoring of process reliability.

KEY INDUSTRIES



MANUFACTURING

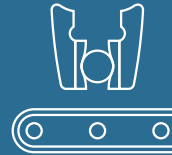


AGRICULTURE

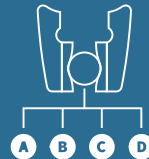


FOOD INDUSTRY

EXEMPLARY USE CASES



MACHINE LOADING



COMMISSIONING



LOGISTICS

AND MUCH MORE...

FOUNDING TEAM



Dr.-Ing.
Nicolas Alt
Computer Vision



Dr.-Ing.
Clemens Schuwerk
Control Engineering



M. Sc.
Stefan Lochbrunner
Electronics Engineering



Dipl. Ing.
Gerd Denninger
Business Development

ABOUT US

RoVi was founded by four scientists as a spin-off from Technical University of Munich (TUM). Our common vision is to create robots that improve our daily lives. Robots that are simple and low-cost yet smart enough to take over redundant, dirty and dangerous tasks.

Our camera-based sensing technology is fundamentally based on Nicolas' ten years research expertise in computer vision and visuo-haptic perception.

Clemens' research focused on haptics and telerobotics. Nicolas and Clemens have been working together for several years in the field of robotics during their PhD. Stefan is an electronics and hardware engineer with four years of experience. Gerd extended his holistic business skills, ramping up the software business of the world leader for additive manufacturing (EOS) for six years.

Get the latest updates about our technology
by signing up for the newsletter on our website!



ROVI Robot Vision, c/o TUM
Arcisstr. 21, 80333 Munich, Germany

SPIN-OFF AT
TECHNICAL UNIVERSITY OF MUNICH

- www.rovi-robotics.de
- contact@rovi-robotics.de
- [@lmtrovi](https://twitter.com/lm trovi)
- linkedin.com/company/rovi-robotics/

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