SME Pitches

Percipio Robotics

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Company at a glance

We design, develop and implement the **robotics solution** to handle & assemble **microcomponents**.

A team based in France of 40+ employees, including 7 PhDs

R&I at the heart of development: 12% of sales reinvested and over 30 employees directly involved

Electronic packaging, biomedical device, watchmaking industry, ...

Handling **objects as small as 5 µm in size**
Assembly/positioning accuracy down to ±0.5 µm
50+ machines installed since 2016
1 M components assembled / week worldwide
Company’s Activities

Active participation in several research projects:

- CITHaDel (2015-2019, InterReg FR-CH): Hybrid integrated cell for microforce measurement
- 3S-MEMS (2015-2019, FEDER): MEMS silicon production chain for innovative sensors
- COLAMIR (2016-2021, ANR): High-precision assembly using a collaborative, agile micro-robotics approach
- French Precision (2018-2023, BPI France): Monitoring service and predictive maintenance solution for industrial machines
Company’s Activities

Development of a machine for EPFL’s MicroManufacturing Center able of grasping, placing and fixing electronic components in 3D printed structures for

Numerous challenges met:
- Multiple user profiles, from researchers to students in the learning process
- Easy handling thanks to a cobotic system
- A user-friendly interface for control, understanding and measurement
- Scalable system to adapt to changing needs
Collaboration Expectations

What we offer:

- Development of micromanipulation platforms tailored to your needs
- Maturity enhancement (TRL 3-8) through a collaborative approach
- A modular and flexible approach

What we are looking for:

- Taking on new, innovative challenges to push back the frontiers of precision assembly (active/passive alignment, ...)

[Images of micromanipulation equipment and a virtual reality setup]