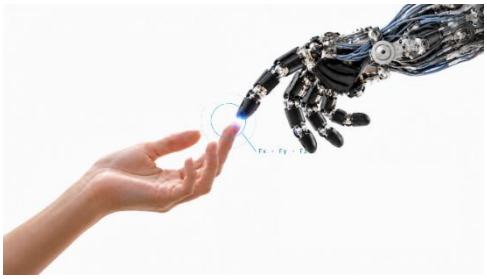
PODISENSE
TECHNOLOGIES

SLUSH 2026
ROBOTICS · TACTILE SENSING

PHYSICAL AI · TOUCH FOR ROBOT HANDS

Robot hands that feel a slip before it happens.

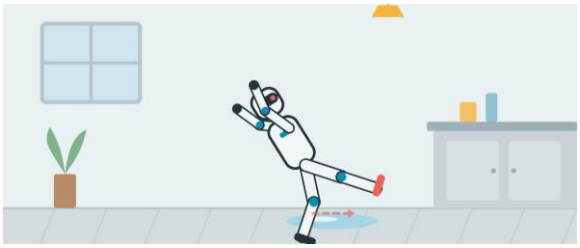
Thin 3-axis force sensors that see pressure **and** shear: the push that comes before an object slides.



THE PROBLEM

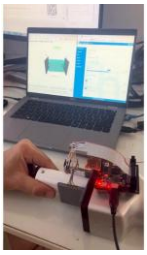


Robots can't feel shear. Grip force is a guess, so objects slip and drop.



Pressure-only sensors react late. By the time load changes, the object is already moving.

PROVEN ON A REAL GRIPPER



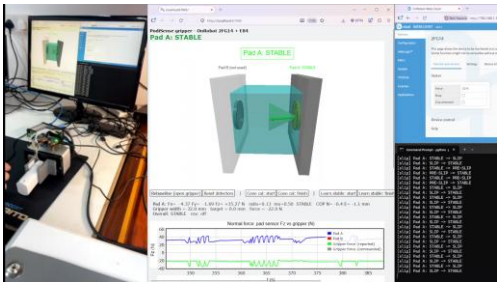
OnRobot 2FG14 + PodiSense pads

29/29
slips caught

460 ms
median early warning

0
PCs in the loop: AI runs on the chip

1 wire
to the gripper controller

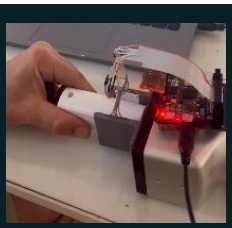


Live at Infineon Demo Day, Graz, Oct 2026

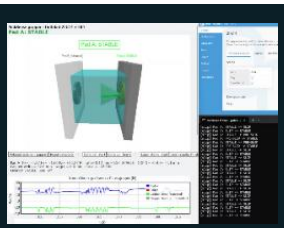
ONE PLATFORM, SENSOR TO ROBOT



01
Sensing
Printed 3-axis pads, 0.8-1.5 mm, Fx Fy Fz



02
Electronics
Read directly by the Infineon PSOC™ Edge E84

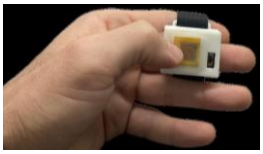


03
Software & App
Slip AI on the chip, live view and tuning in the app

```
#include podisense
chip → any MCU
firmware → partners
```

04
SDK
Works with any chip. Partner firmware, SDK & libraries

FOR ROBOT AND GRIPPER MAKERS



Fingertip modules for humanoid hands · **Sensor pads** for grippers · **Evaluation kit** on PSOC™ Edge E84 · Supplied per unit · we don't build robots

Built with Infineon (Startup Challenge 2026) · tested with OnRobot · patented: WO 2023/237887

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Raising €1.2M seed · PodiSense Ltd, Cyprus