



adaptronics

Reinventing how robots grab objects

Nicolò Berdozzi, Senior Application Engineer

Companies need more effective and versatile grasping solutions



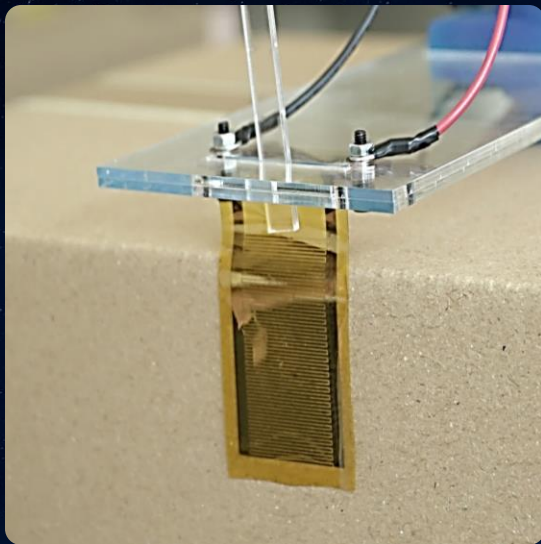
63% companies need more automation



94% GEO satellites reach $\frac{1}{2}$ lifetime with at least 1 technical failure

EAAL: Electro-Active Adhesive Layer

adhesive on command + contact sensor feedback



2 cards > 50 kg

- ✓ Ultra-Fast
- ✓ Versatile
- ✓ Efficient (<1 W)
- ✓ Scalable
- ✓ AI-driven sensing



No need for:

 Pneumatics  Magnets  Heat dissipation  Target predisposition

Technical team



Lorenzo Agostini
CEO

PhD Sc. Sup. San'Anna
MSc Mech. Eng, PoliMi



Camilla Conti
COO

PhD Politenico Milano
MSc Energy Eng, PoliMi



Nicolò Berdozzi

Application Engineer
PhD UniBo
MSc Automation Eng, UniBo



Francesca Giardina
Aerospace Engineer
Full-time



Francesco Vender
Electronics Engineer
Full-time



Edoardo Cambi
Mechanical Engineer
Full-time



Tommaso Banfi
PhD Biorobotics
AI expert – Part time



Marco Cinti
Comm. and Marketing
CMO – Part time

5 x PhD student
collaborators



Chiara Scagliarini
Applied physicist
Printed electronics



Federico Bertolucci
Applied physicist
Printed electronics



Enrico Masi
Mechanical Engineer
Product development



Amedeo Carloni
Mechanical Engineer
Product application



Eugenio Monari
Automation Engineer
Software development

Value Proposition

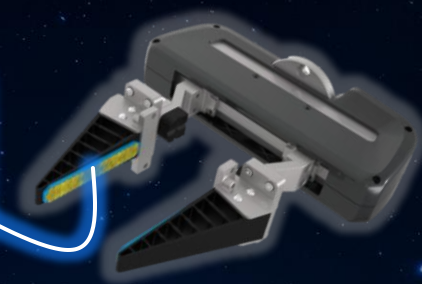
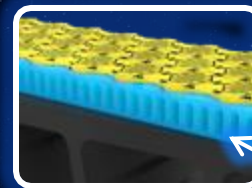
Plug&Play
fingertip for any
grasping action



EAAL: adhesive
on command

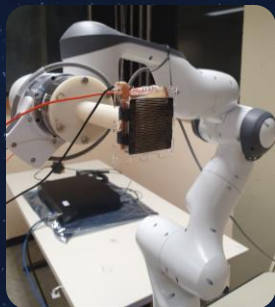
Compliant mechanism
maximum adhesion

Robotic **gripper** device
or docking interface



Applications:

Handling equipment: **\$ 210B**



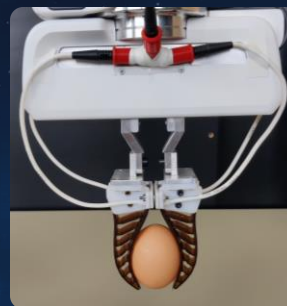
Industrial

assembly, pick&place,
rollers, conveyor belts



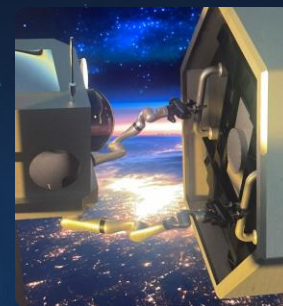
Agritech

fruits & vegetables, vertical
farming, sorting



Auton. robots

last-mile delivery with
drones or rovers



In-orbit servicing

servicing to satellites,
docking, debris capture

Forecast IoS operations: **\$ 25B**

Grants
\$ 200k

Pre-seed
\$ 685k

PoC
\$ 300k

Seed
\$ XXM

2021

2022

2023

2024

2025



business
incubation
centre
Turin

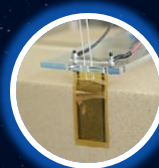


3 PoC
industrial



space-like
testing

LOIs
Space
companies



MVP
Finalize the
EAAL

Early Adopters
applications and
regulatory
certification
TRL 8



**Proprietary
Production
plant**



**In-orbit
demo**

+100 Interviews
Validation

+20 LOIs
Space
companies



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