1. Soft Actuation for Industry

- Most industrial robots are stiff
- Compliance achieved through torque sensors
  - No intrinsic safety
  - Time delay
- Intrinsic safety can be achieved with springs (SEA)
  - Used a lot in research
  - But rarely used in industry: compromised position control

We want:
- Precise
- Fast
- Safe
2. Soft Sensitive Skin for Manipulation

• Current sensors: too big, mostly only 1-axis force
• uSkin by XELA Robotics
  • Soft
  • Distributed 3-axis measurements
  • Physically small
  • Digital output
  • Easy to integrate
AWARD WINNING
TACTILE SENSOR ROBOT HAND
USKIN FEATURE:
SLIP DETECTION
Interested in XELA or Nicebot?

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