

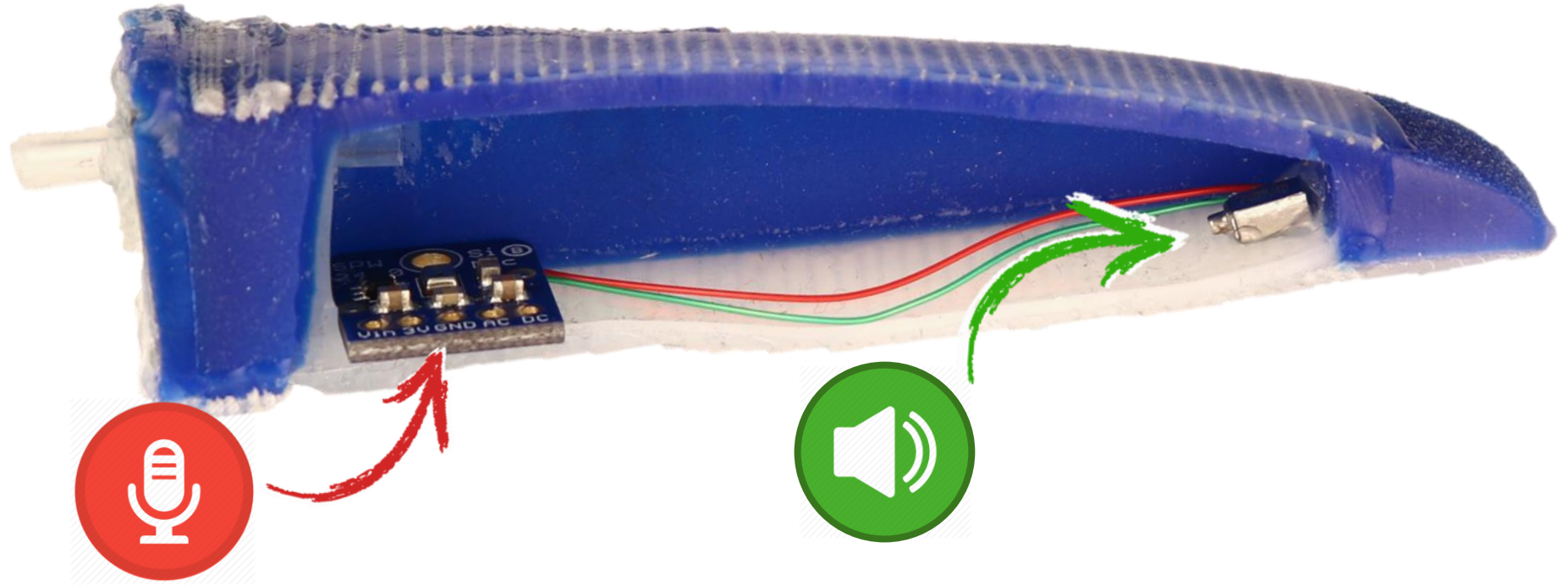
Embodied *Sensing* Intelligence

Vincent Wall

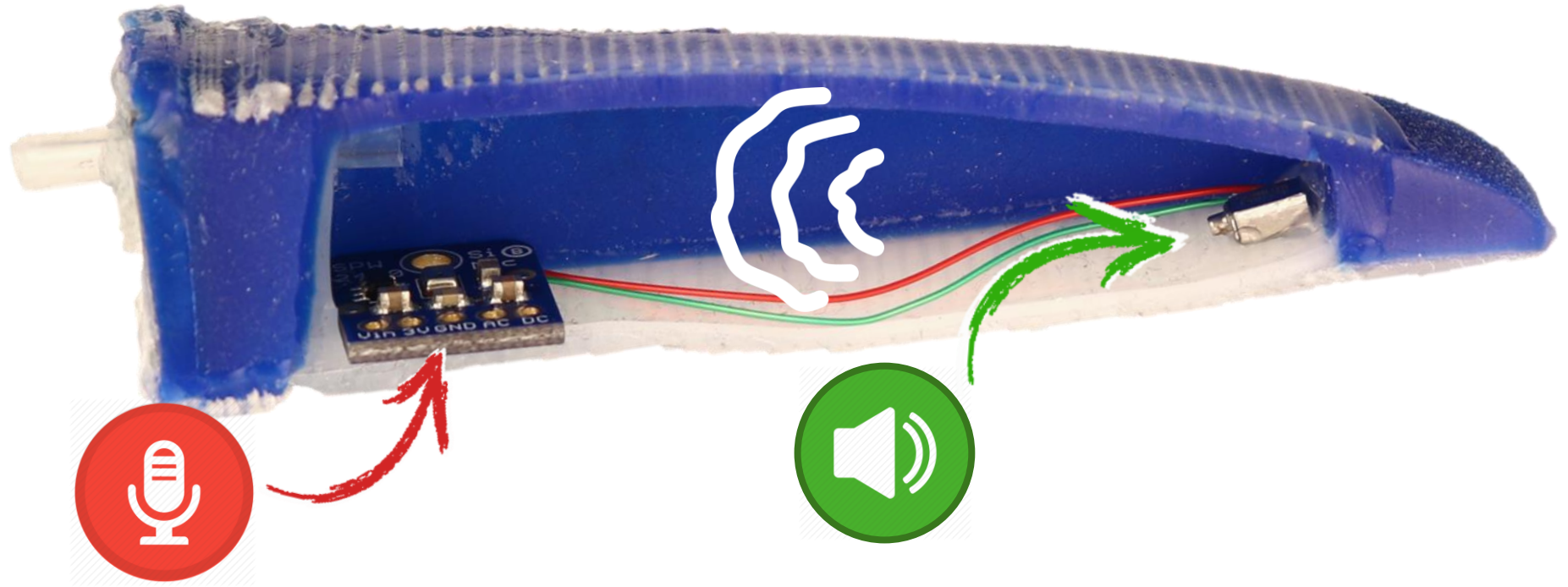
Sensorizing Soft Robots



Acoustic Sensing

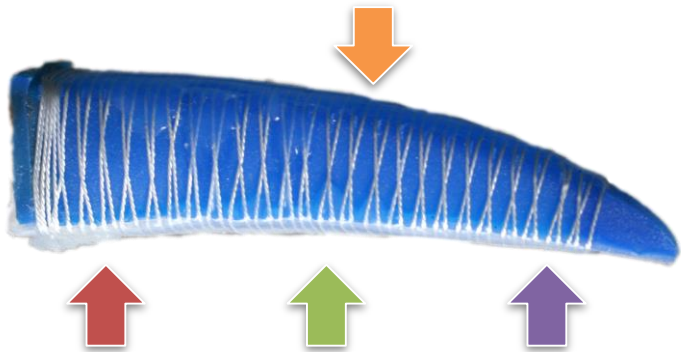


Acoustic Sensing

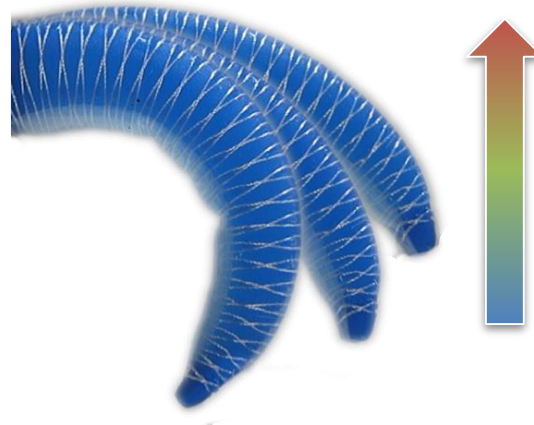


Measurable Interaction Parameters

Contact Location



Contact Force

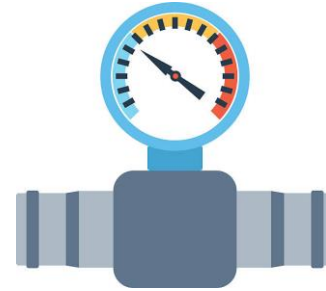


Measurable Interaction Parameters

Material

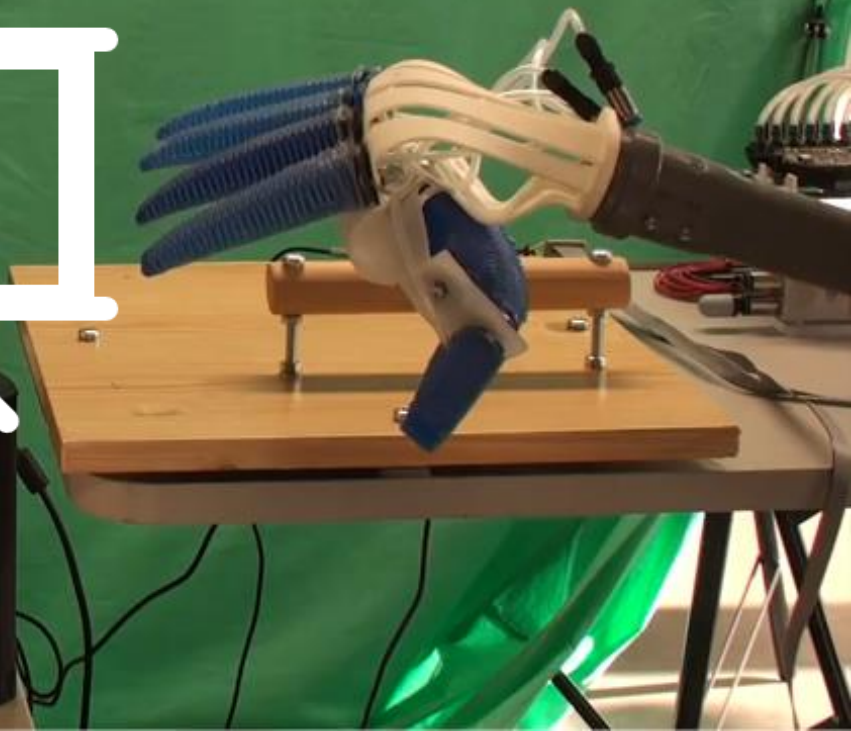
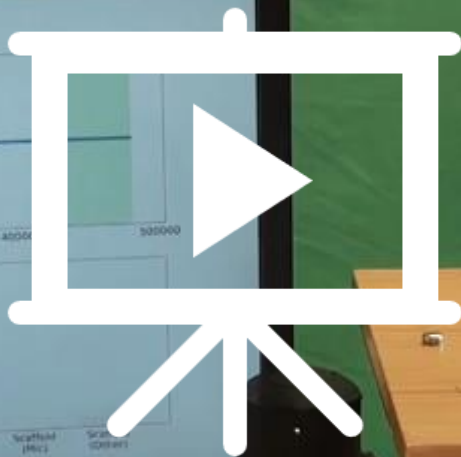
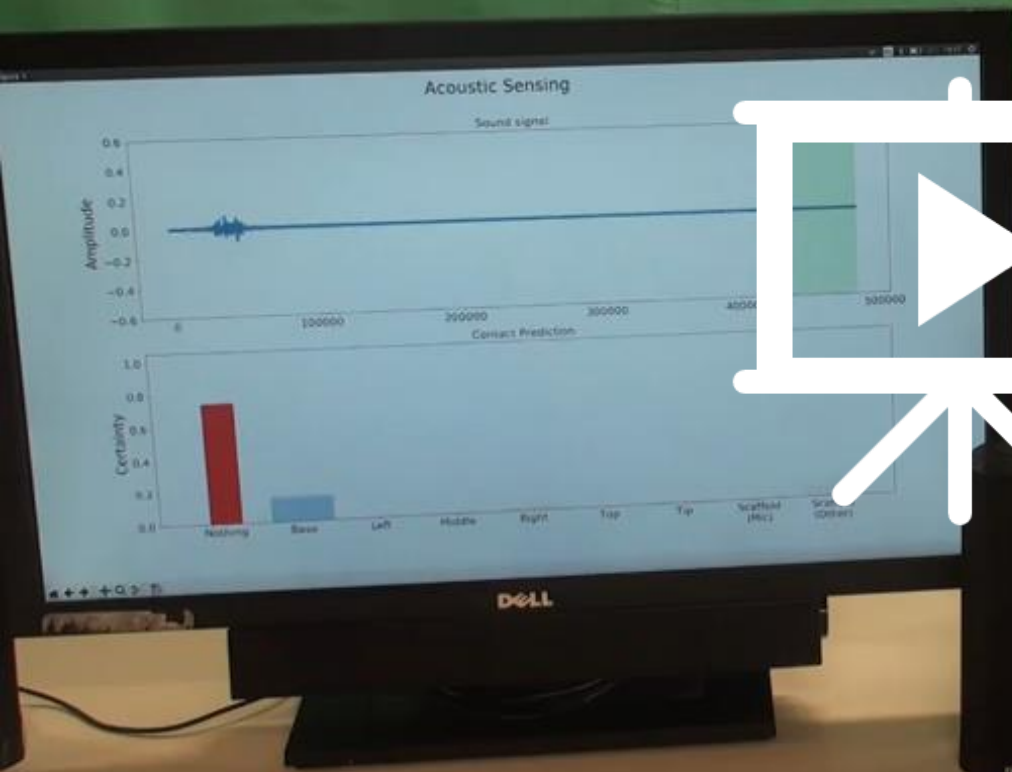


Inflation



Temperature





Thank you!

- ▶ Gabriel Zöller, Vincent Wall, and Oliver Brock. "**Acoustic Sensing for Soft Pneumatic Actuators.**" *2018 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*. IEEE, 2018.
- ▶ Gabriel Zöller, Vincent Wall, and Oliver Brock. "**Active Acoustic Contact Sensing for Soft Pneumatic Actuators.**" *2020 IEEE International Conference on Robotics and Automation (ICRA)*. IEEE, 2020.

Acoustic  Sensing
Starter Kit



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