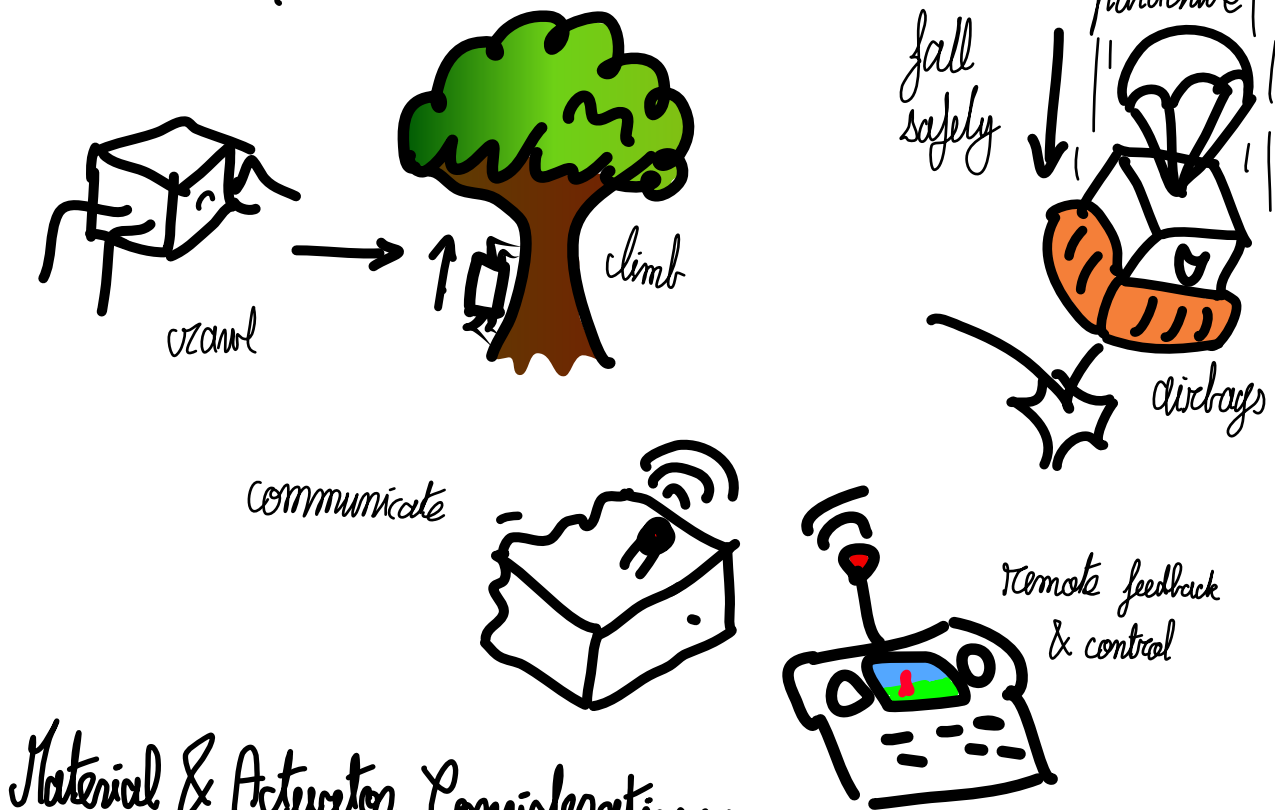
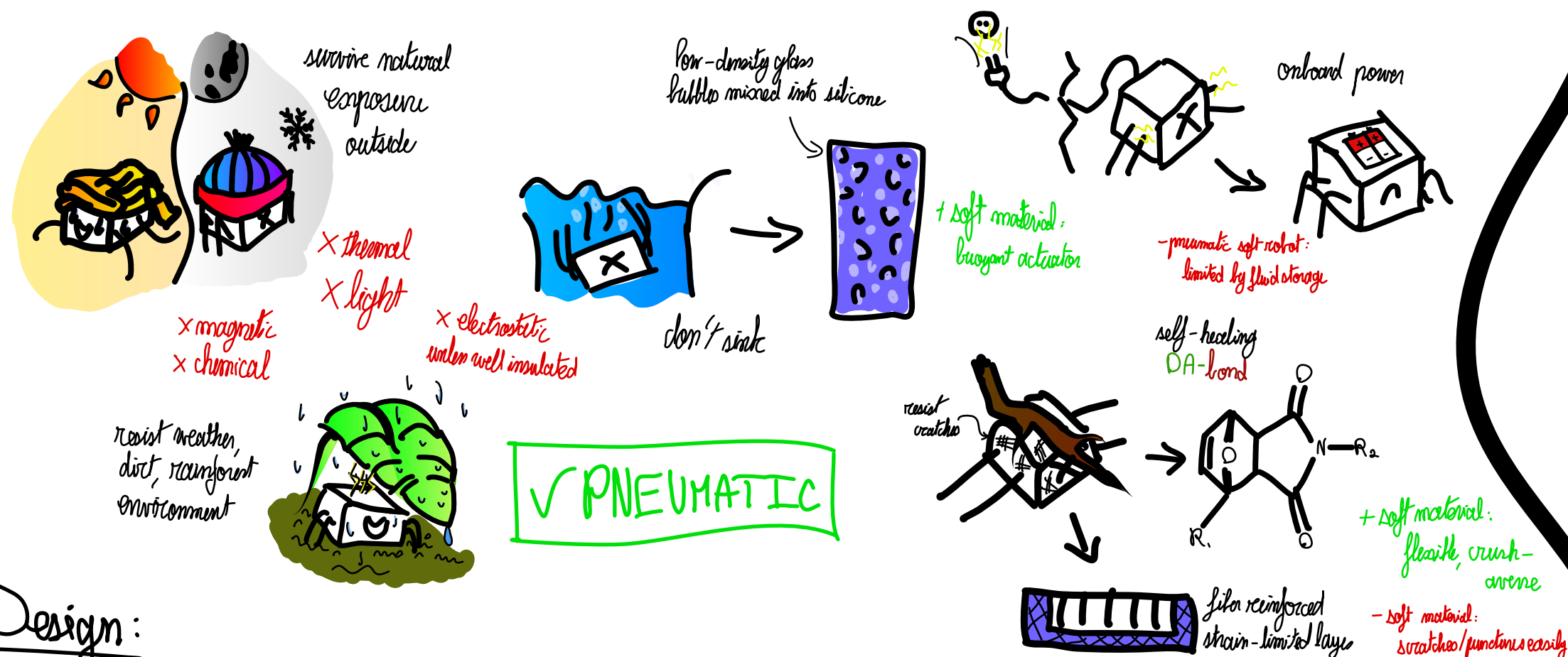


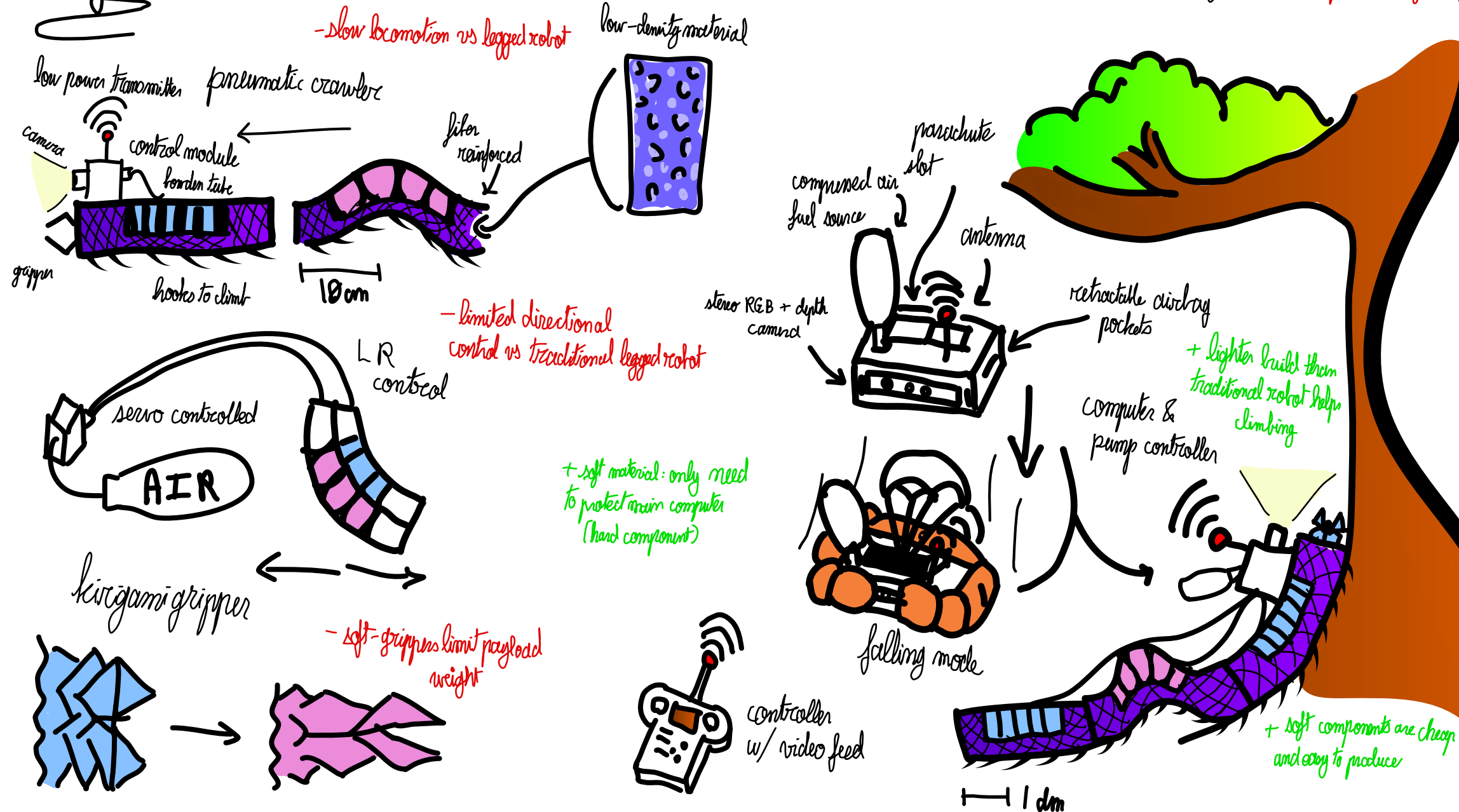
Functional Requirements:



Material & Actuator Considerations:



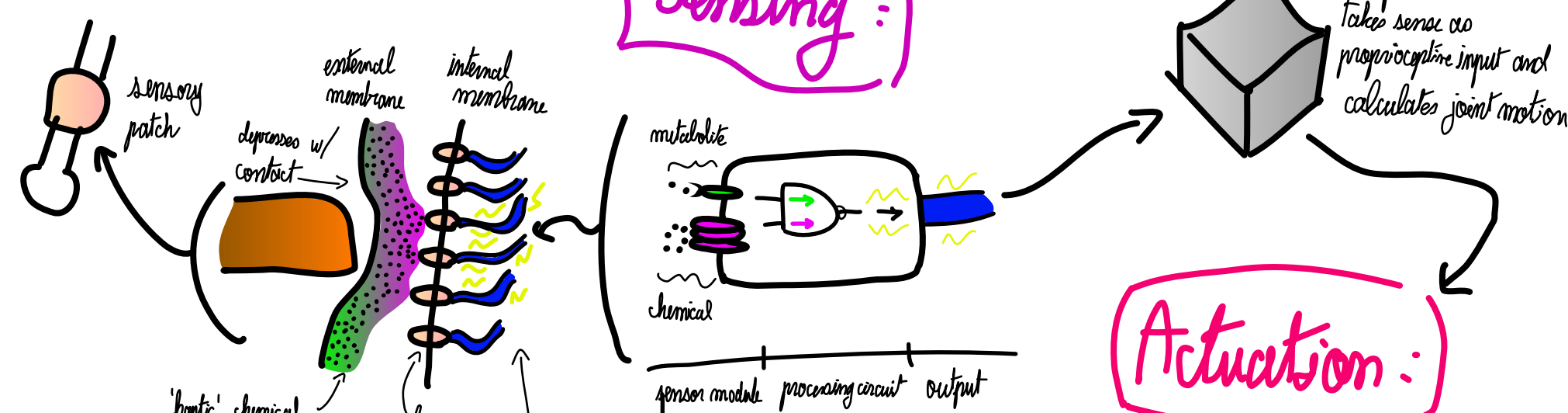
Design:



Rainforest Explorer

BIOMal

Soft & Biohybrid Robotics Assignment 2 Matthias Hegeman



Biohybrid

- + self-replicating and healing
- + more biocompatible
- + design inspired by nature
- + efficient energy conversion
- + water-resistant joints
- needs 2 energy sources
- expensive
- needs sterile containment
- complex sensor fabrication
- difficult controlling
- less compact actuators

Traditional

- + robust
- + easily produced
- + relatively inexpensive
- + dense energy source
- + easy controlling
- + compact actuator
- + force sensor built into actuator
- not self-healing
- quickly disassembles
- not biocompatible
- actuators need sealing

