

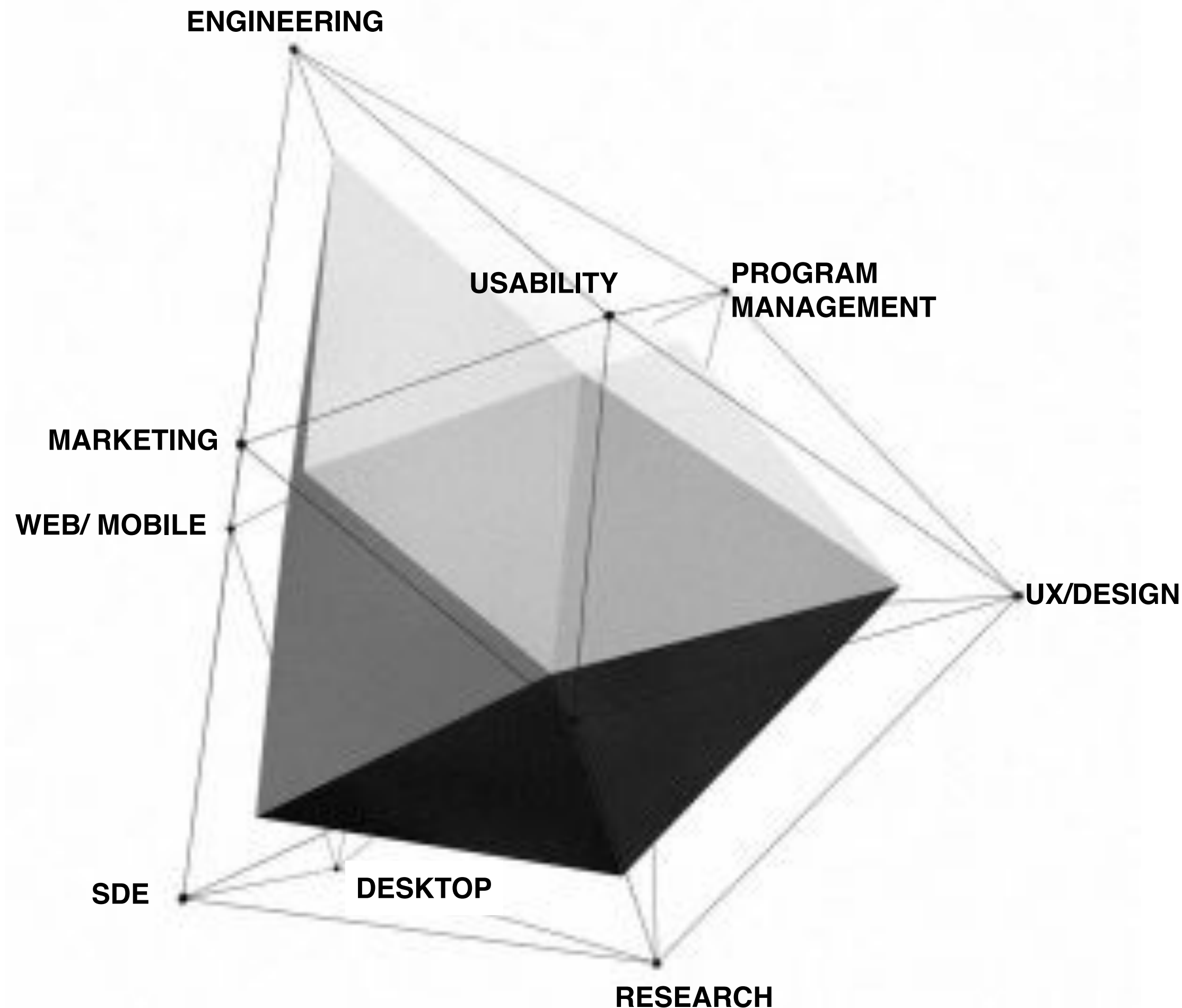
Synthetic vs Natural

Hybrids between  
Technology and Biology

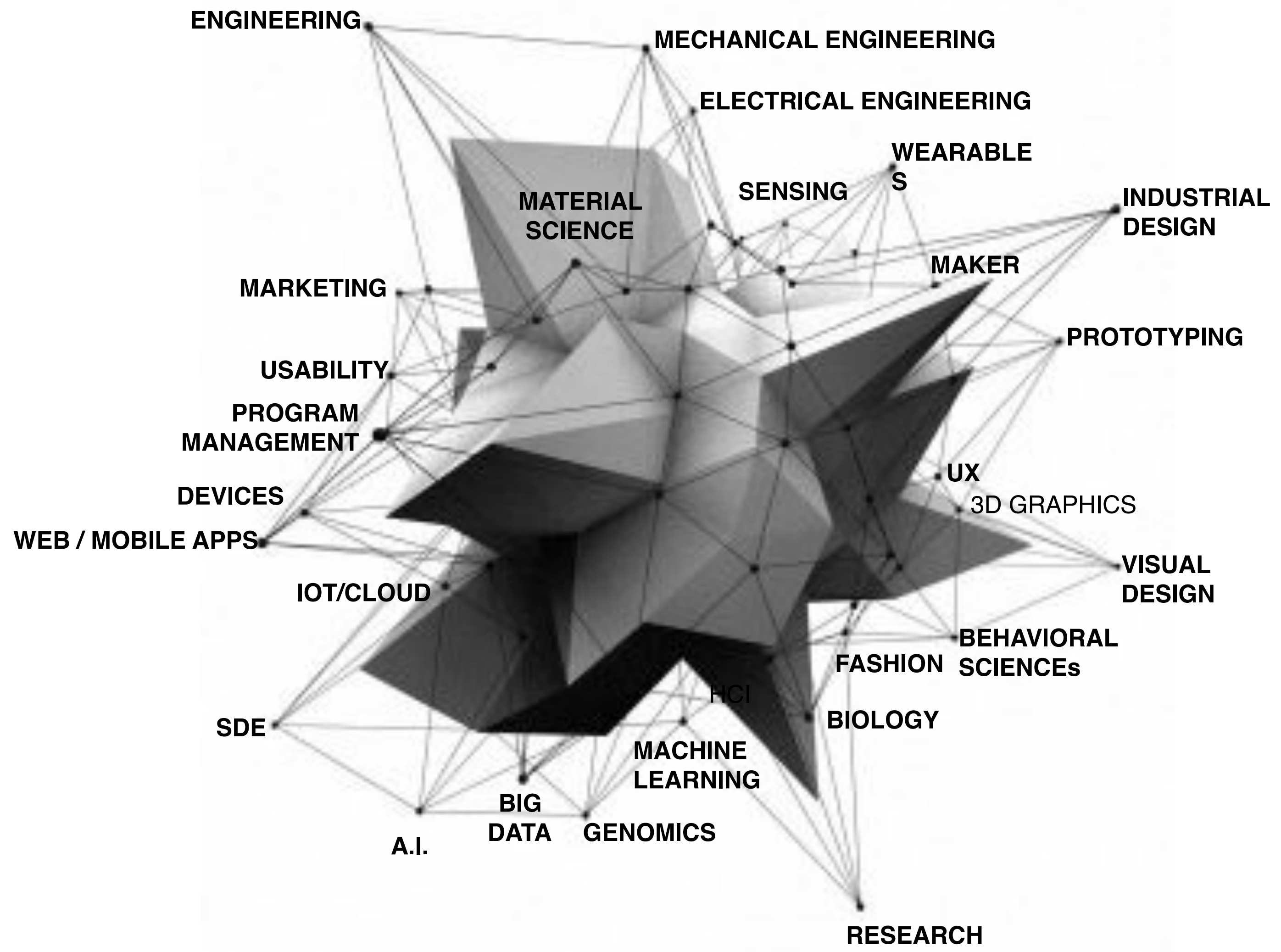


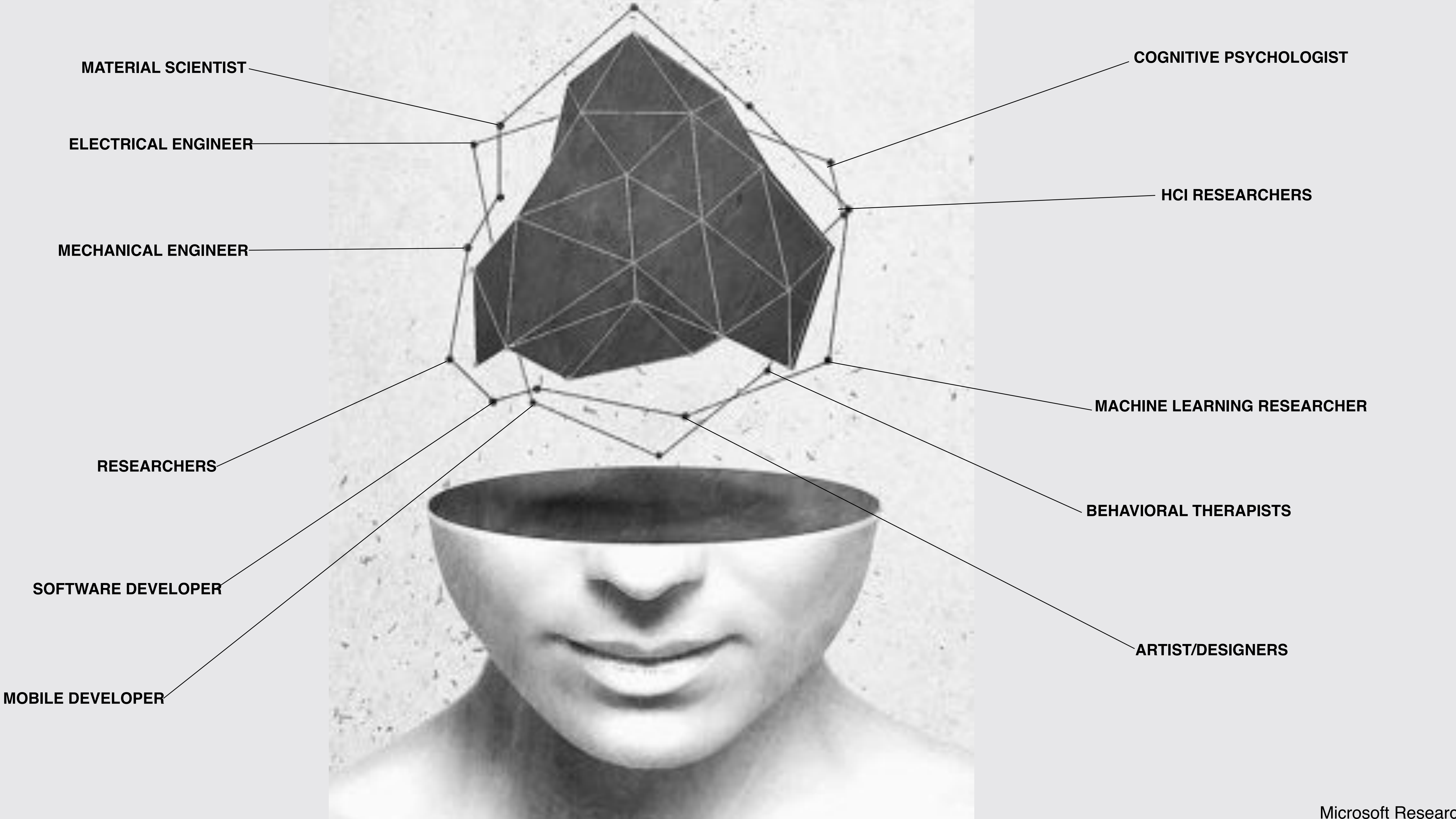
**Design / Engineering / Science**

TECH INDUSTRY: 2010



# TECH INDUSTRY: NOW





**MATERIAL SCIENTIST**

**ELECTRICAL ENGINEER**

**MECHANICAL ENGINEER**

**RESEARCHERS**

**SOFTWARE DEVELOPER**

**MOBILE DEVELOPER**

**COGNITIVE PSYCHOLOGIST**

**HCI RESEARCHERS**

**MACHINE LEARNING RESEARCHER**

**BEHAVIORAL THERAPISTS**

**ARTIST/DESIGNERS**

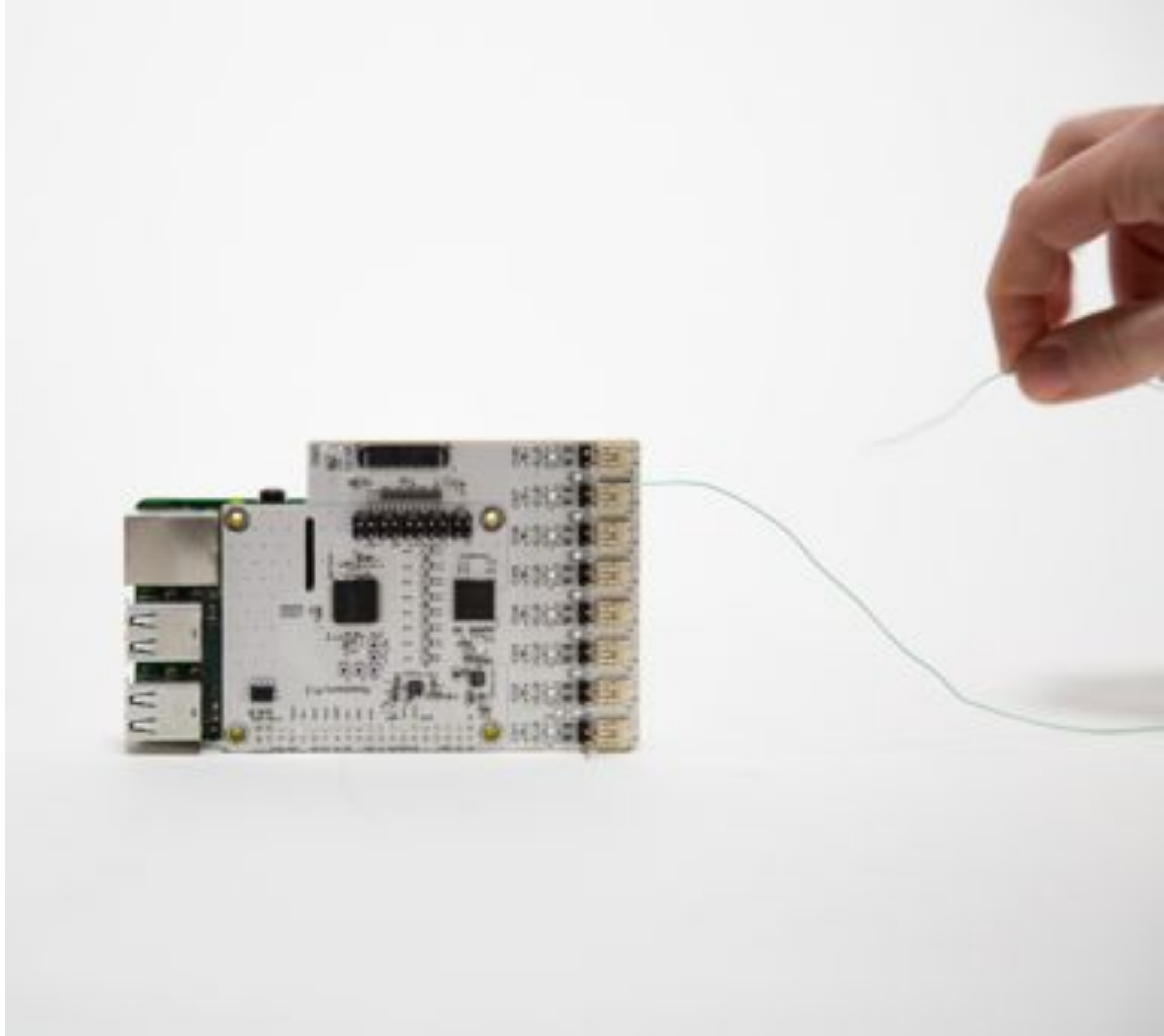




**Synthetic Biology;**  
**Data-revolution for farming;**  
**Environmental monitoring;**  
**Sustainable and optimized agricultural systems;**  
**Optimized cradle to cradle systems;**  
**Sustainable and novel food productions;**  
**Biological interfaces;**  
**Self-assembling, self-healing and self-reproducing materials;**  
**Biological, smart materials;**  
**Sustainable materials;**  
**Novel technologies inspired and build from biological parts;**  
**Bio-electronics**  
**Modeling and research tools for biological systems**  
**Tools for Applied Sciences in education**  
**Biological machineries from nano to macro scale**  
**Biological sensing**  
**Accessible tools for diagnostics**  
**Personalized Medicine**  
**Artificial organs**  
**Sustainable energy models;**  
**Bio-fuels;**  
**Bio-inspired computing**  
**Visualization and modeling software**  
**.....**





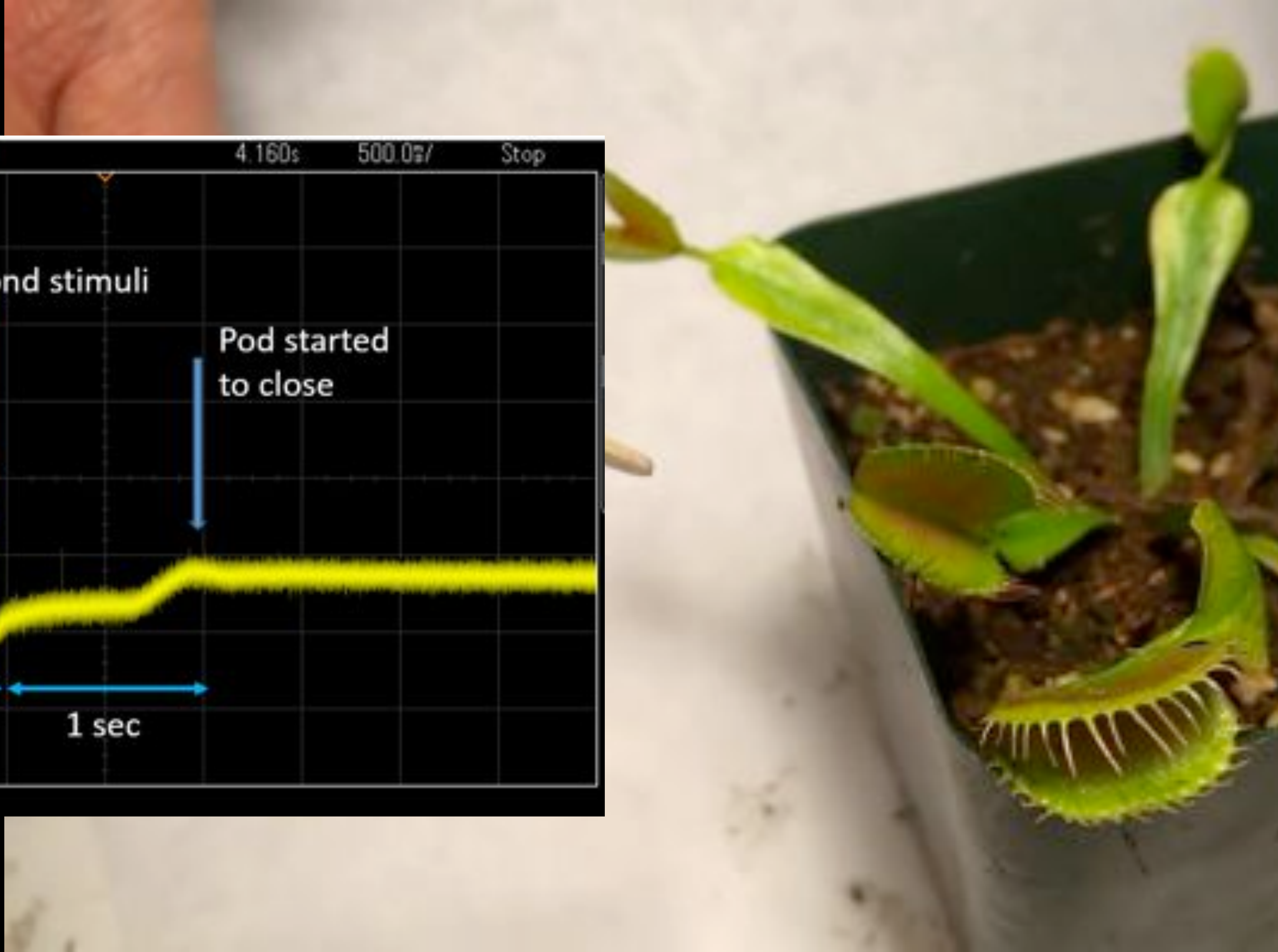
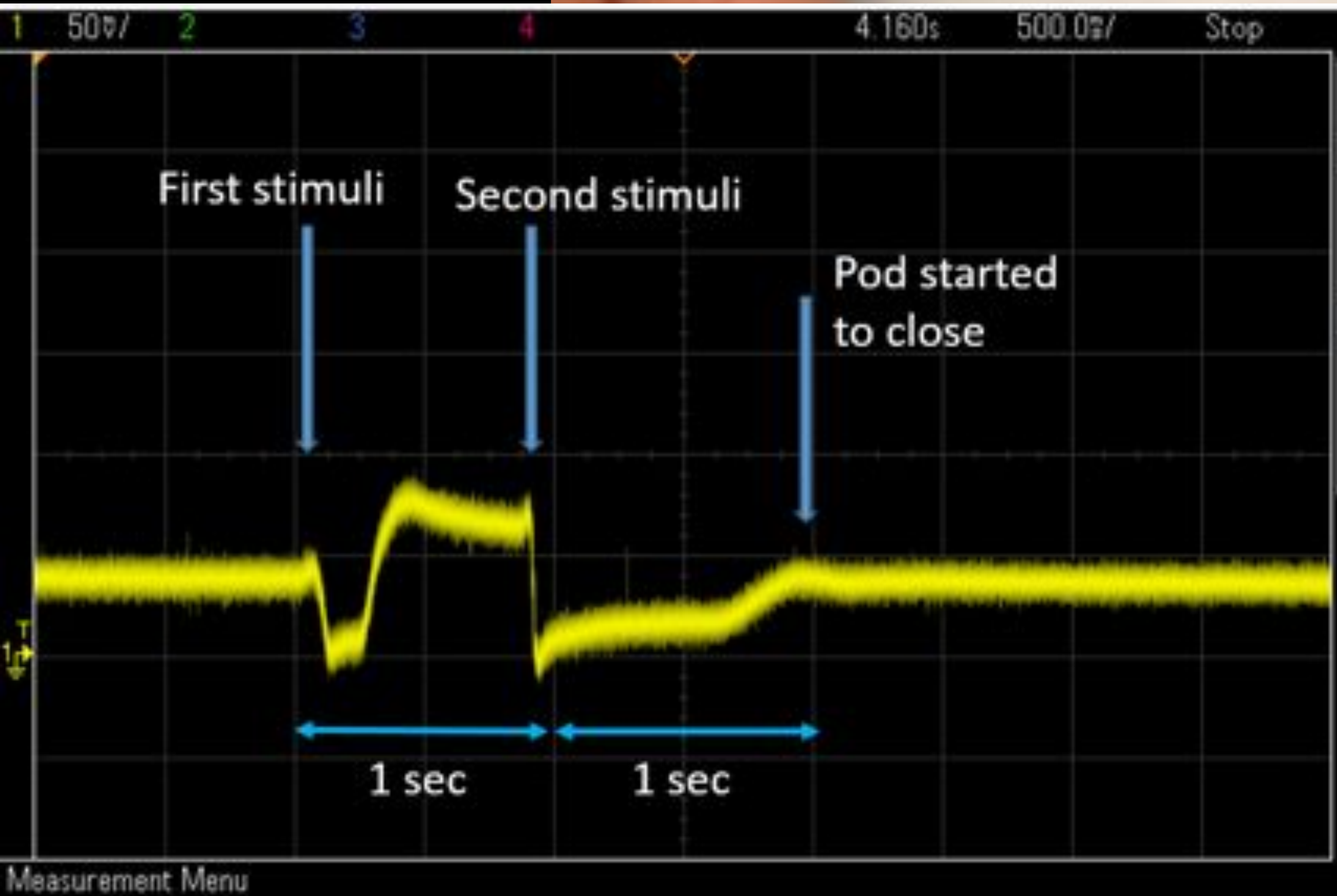
























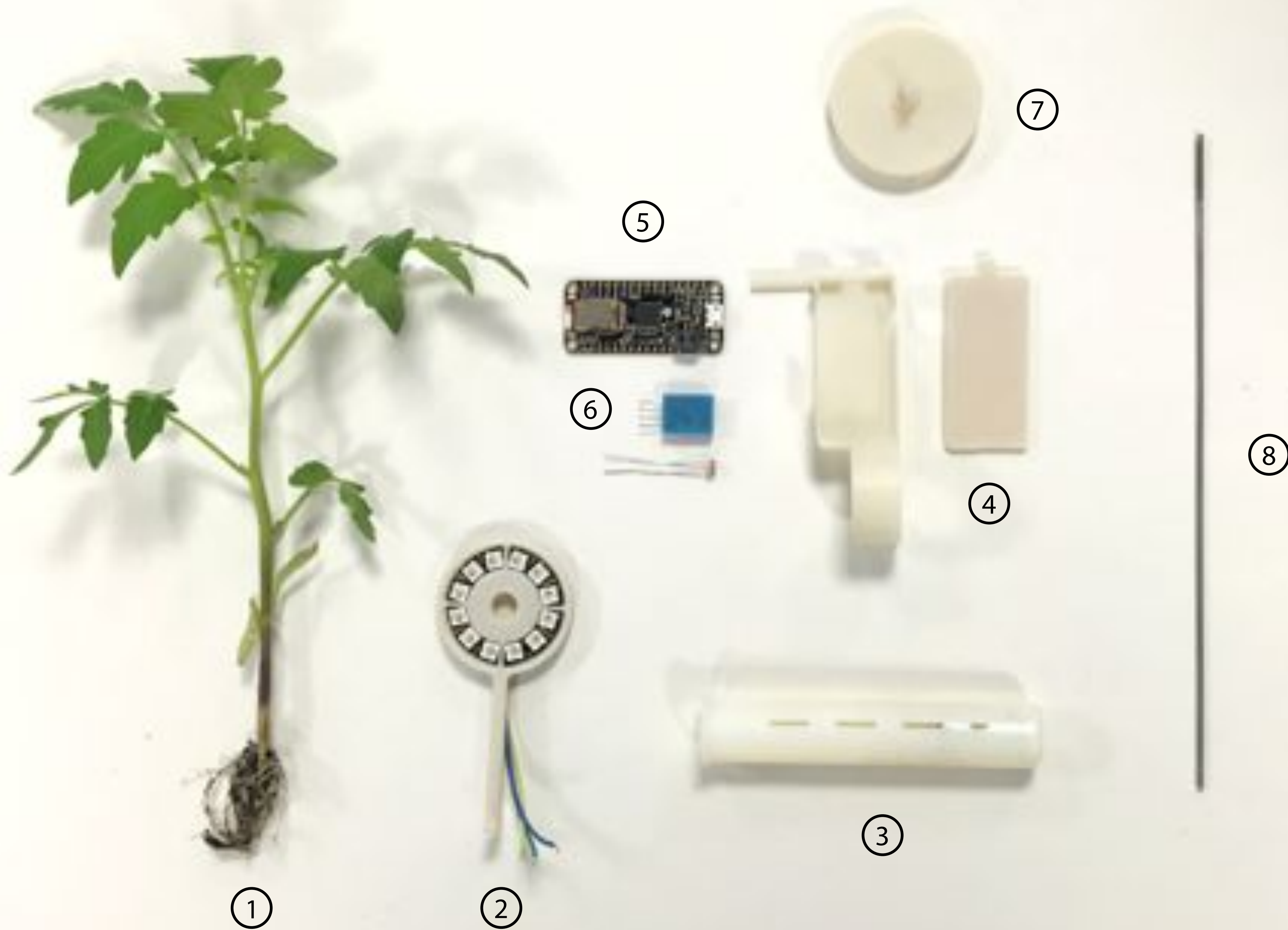












- 1. Plant
- 2. Neo Pixel Ring
- 3. Filter
- 4. Cover Arduino
- 5. Arduino with Bluetooth
- 6. Temperatur and Humidity Sensor, Photo cell
- 7. Cover for light testings and camera hole
- 8. Stick for height control









**Lining Yao, PhD Candidate Tangible Media Group, MIT Media**

From Nature to Fabrication: Designing responsive materials of the born and the made

**Luis Ceze, Computer Science and Engineering Faculty, University Washington**

Building better computer systems by borrowing from nature

**Josiah Zayner, Biohacker and founder the ODIN**

How to protect your genetics assets through obfuscation and encryption in vivo

**Jim Haseloff, Haseloff Lab, Plant Science Laboratory, Cambridge University, UK**