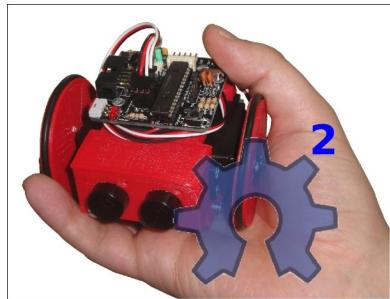


PRINTBOTS: Robots Libres e Imprimibles

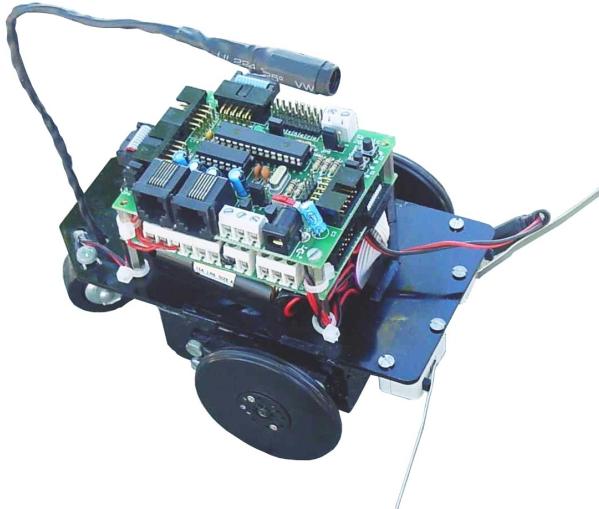


Juan González-Gómez (Obijuan)

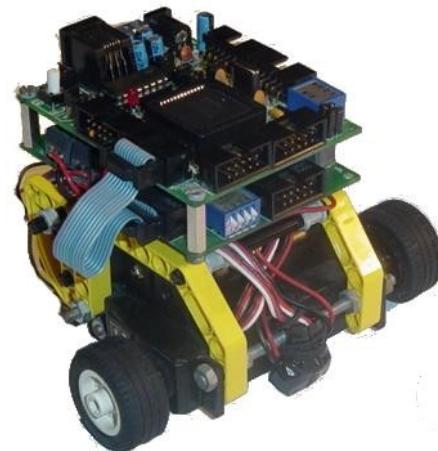
Alberto Valero Gómez

Mecánica: Factor limitante en robótica

Skybot



Tritt



Módulos MY1



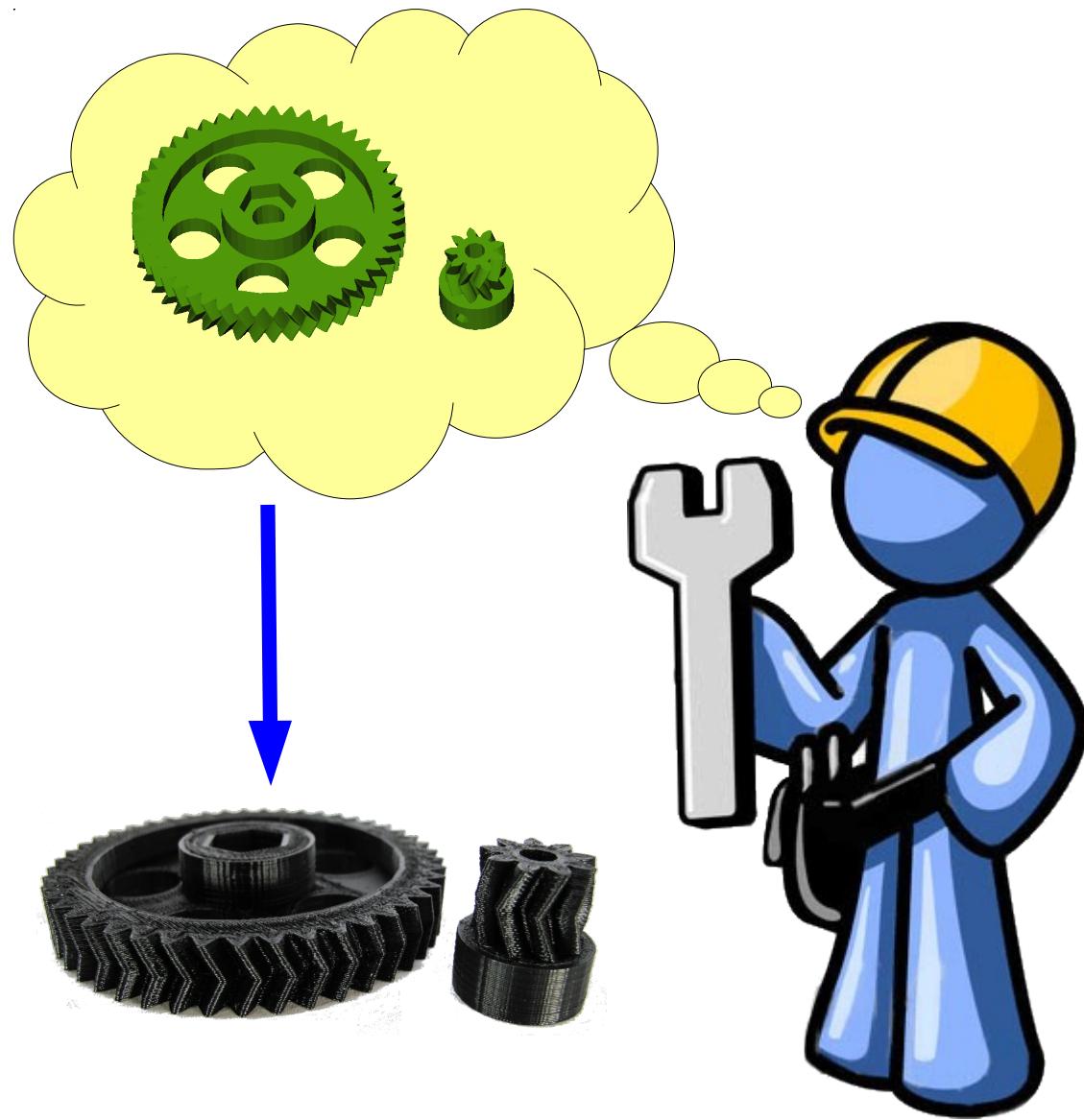
Corte láser

Piezas Lego/mecano

Aluminio

ROBOTICA = MECÁNICA + ELECTRÓNICA + SOFTWARE

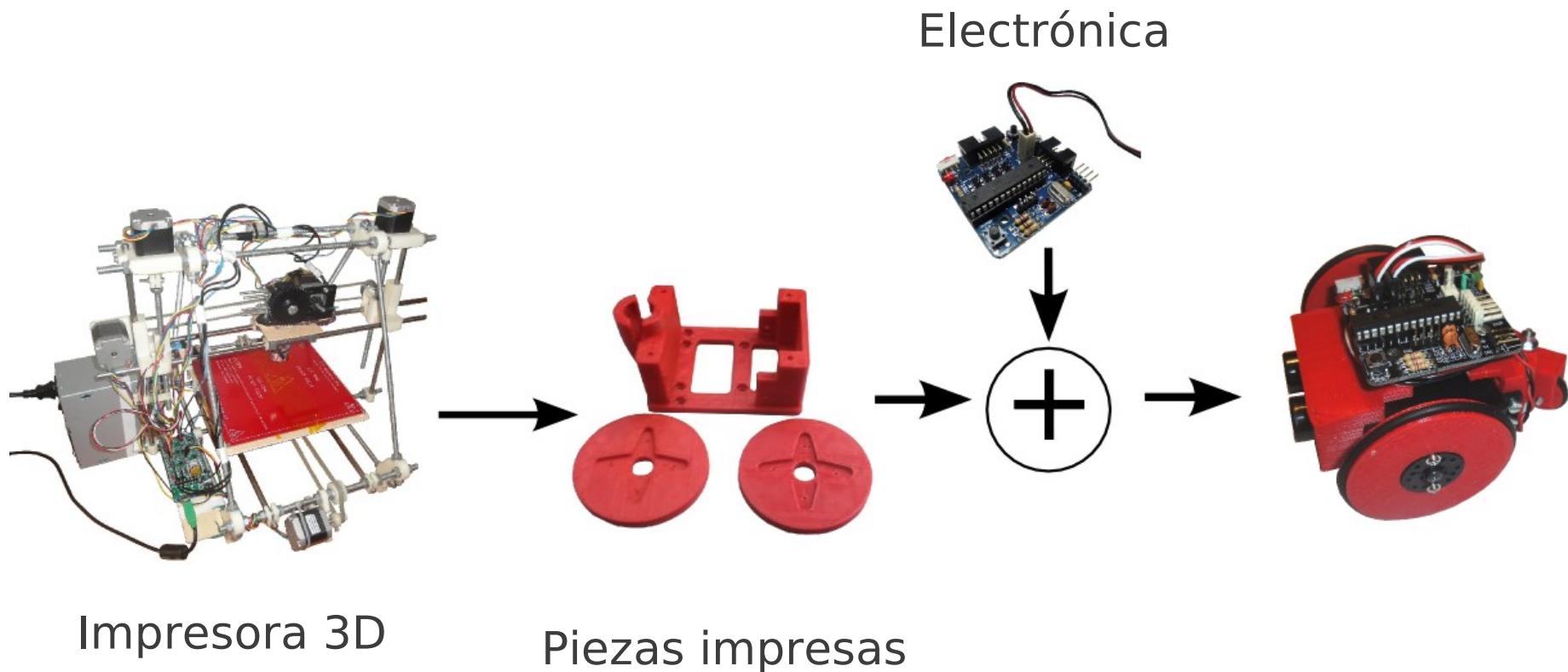
Nueva Era: Impresión 3D Open-source



¡ MATERIALIZAR una idea
en un objeto físico!

- **FÁCIL**
- **RÁPIDO**
- **BARATO**

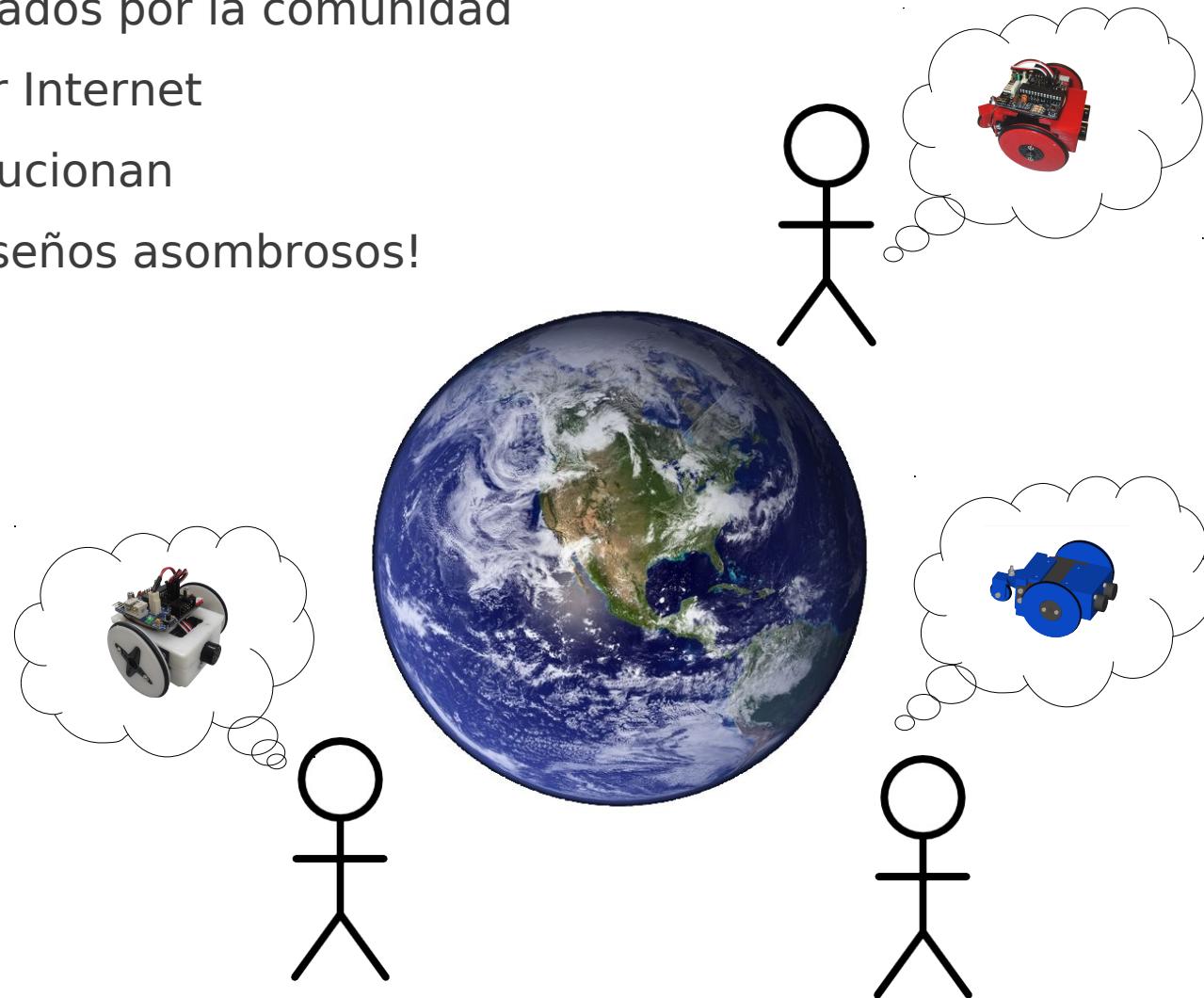
Construcción de Robots Imprimibles (Printbots)



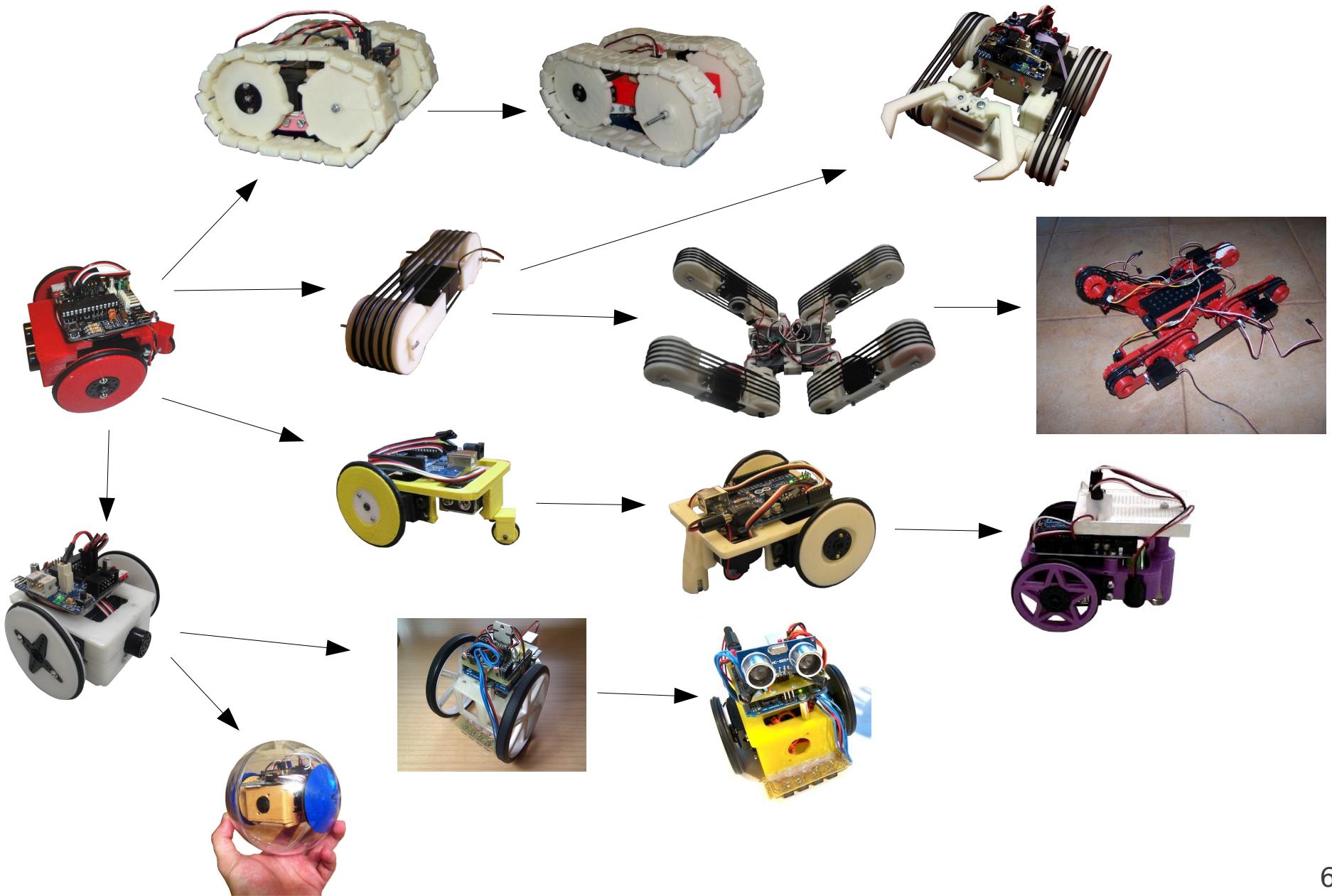
Construimos exactamente el robot que queremos

A esto le añadimos “la comunidad”

- Robots desarrollados por la comunidad
- Compartidos por Internet
- Robots que evolucionan
- ¡Aparición de diseños asombrosos!



= i PRINTBOTS !

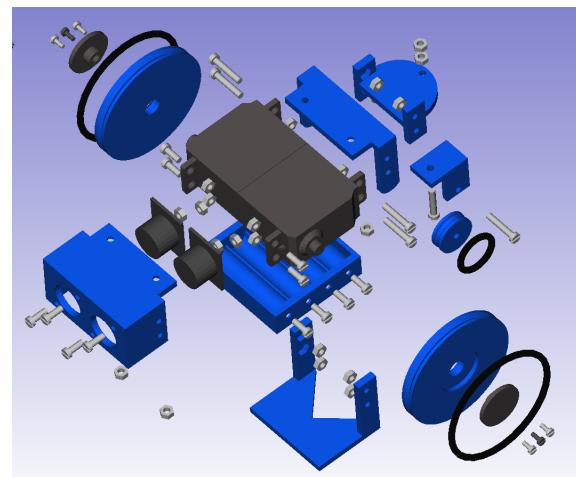
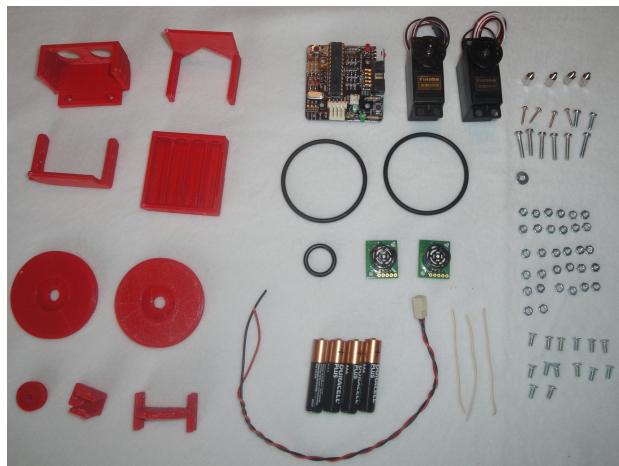
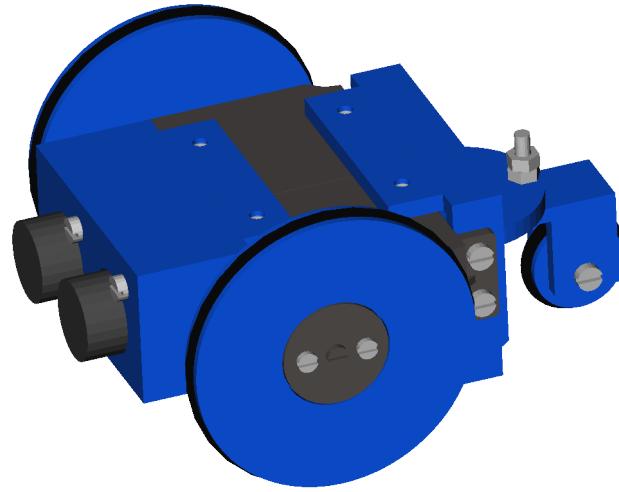
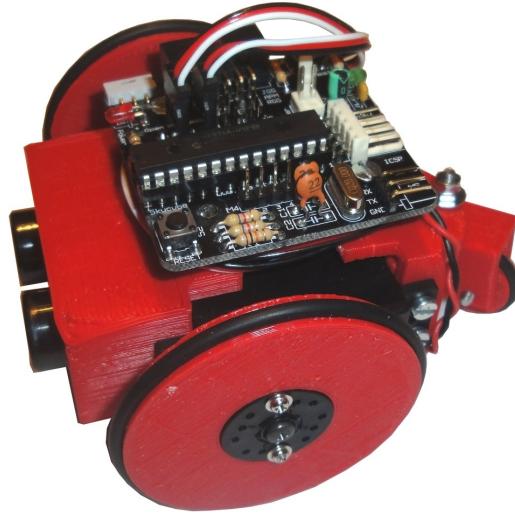


Contraindicaciones: ¡Puede producir ansia viva!



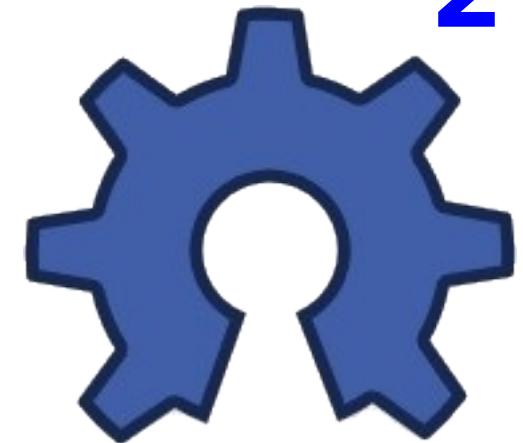
Miniskybot 1.0

<http://www.thingiverse.com/thing:7989>



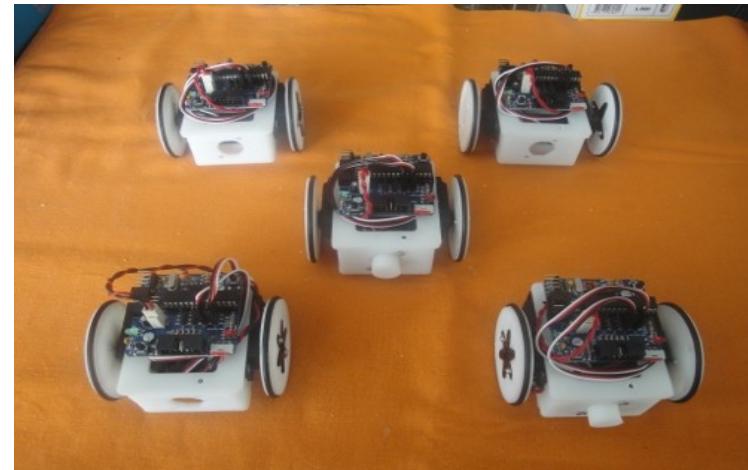
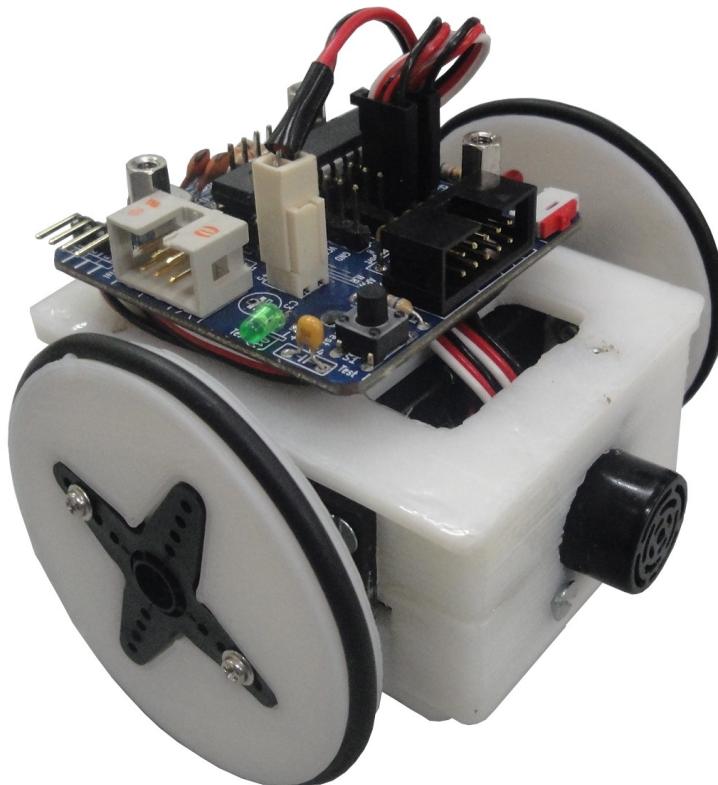
Hardware libre²

2



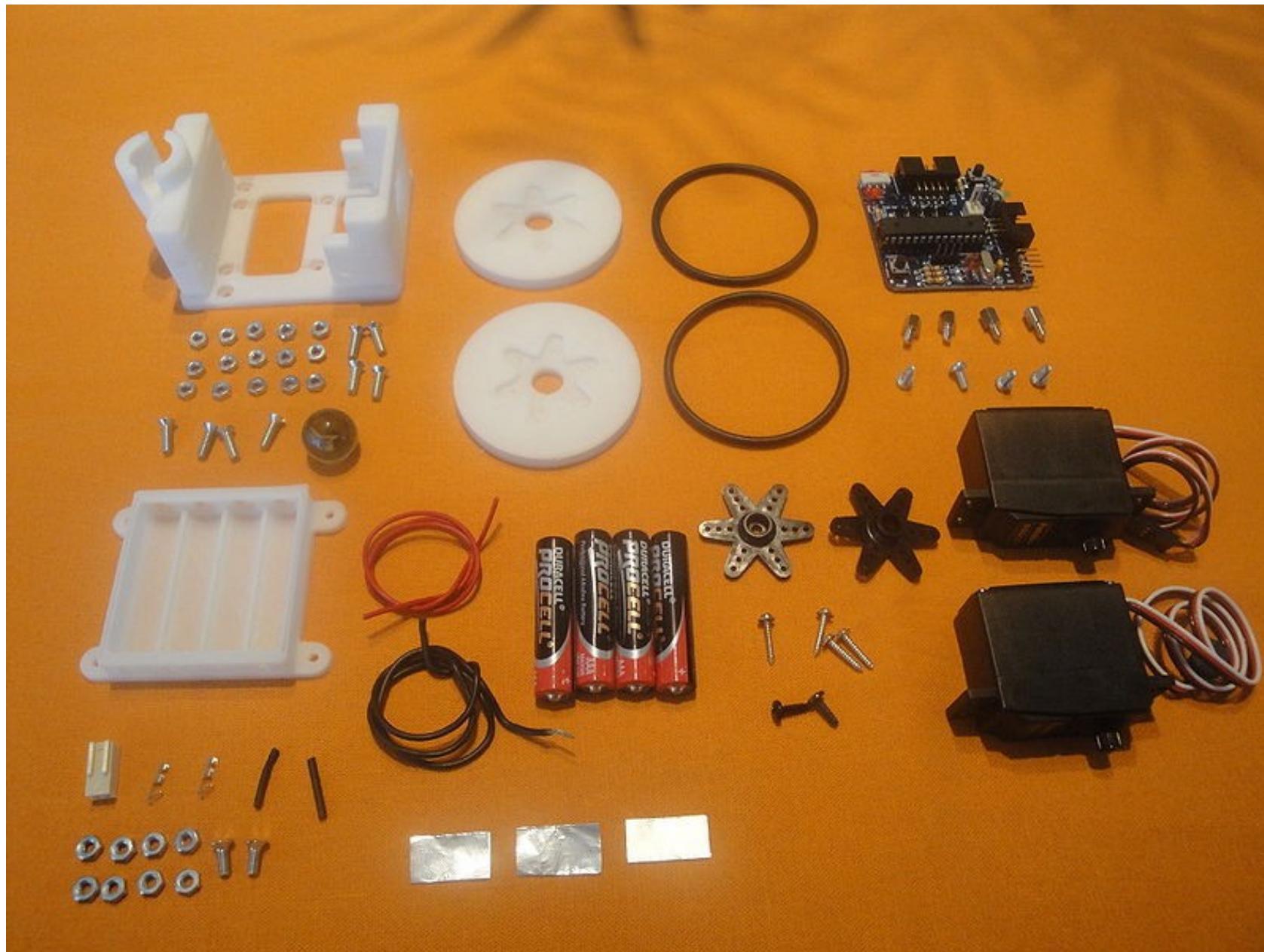
- Panos libres
- Software Libre

Miniskybot 2.0

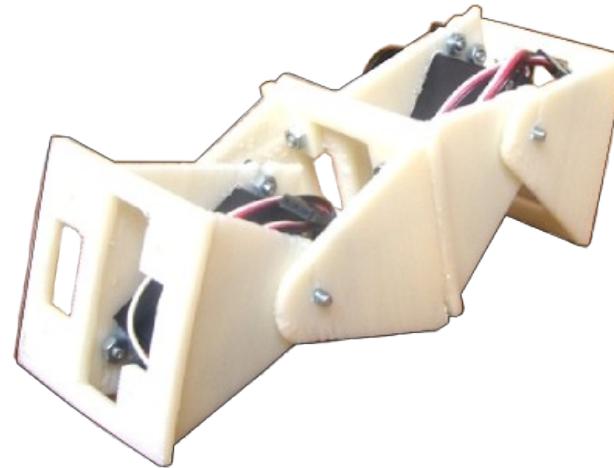


- Robótica y Cibernética (UPM)
- “Manada” de robots
- Red de robots
- Ideas del Scout

Montaje Miniskybot 2



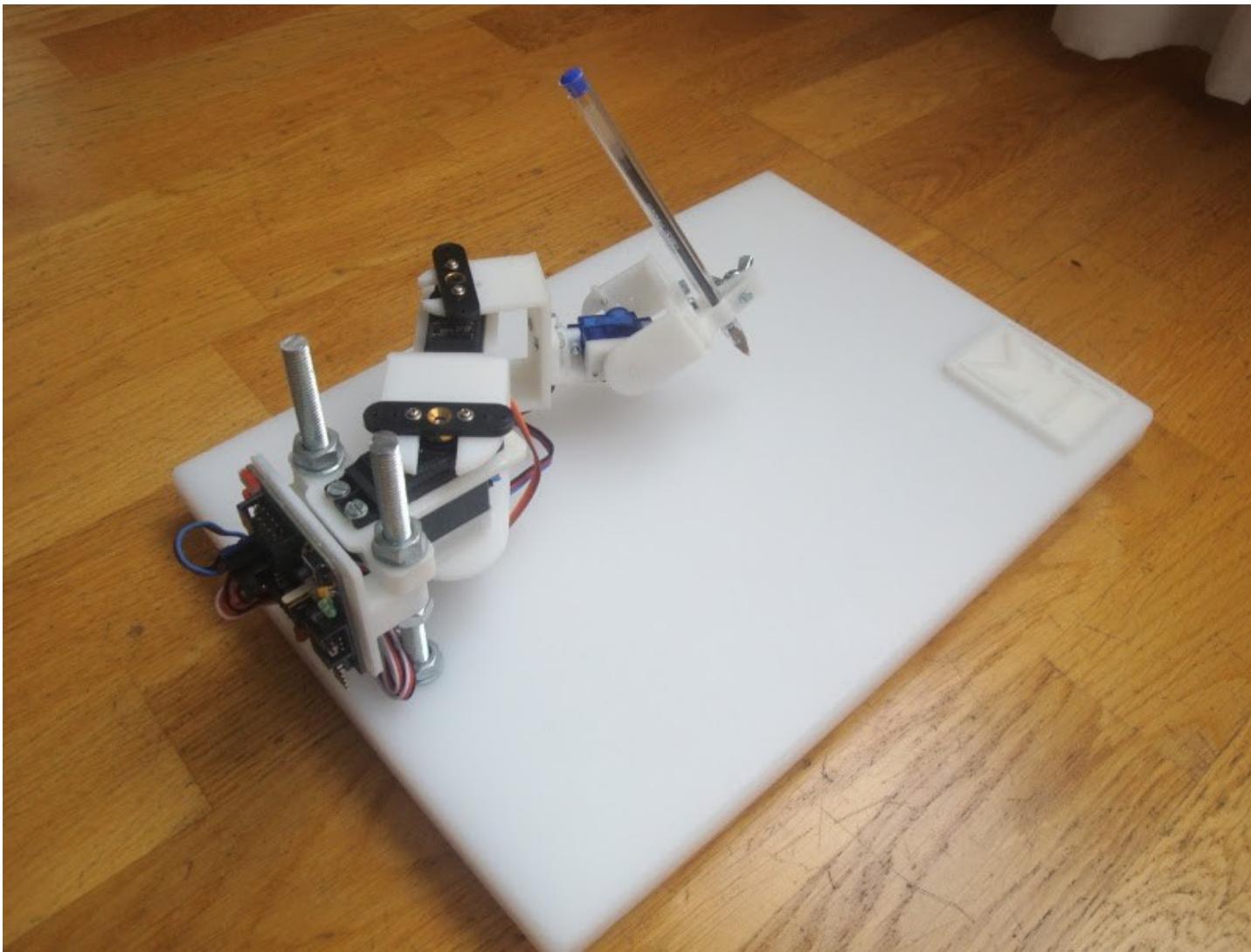
ArduSnake / Robots modulares



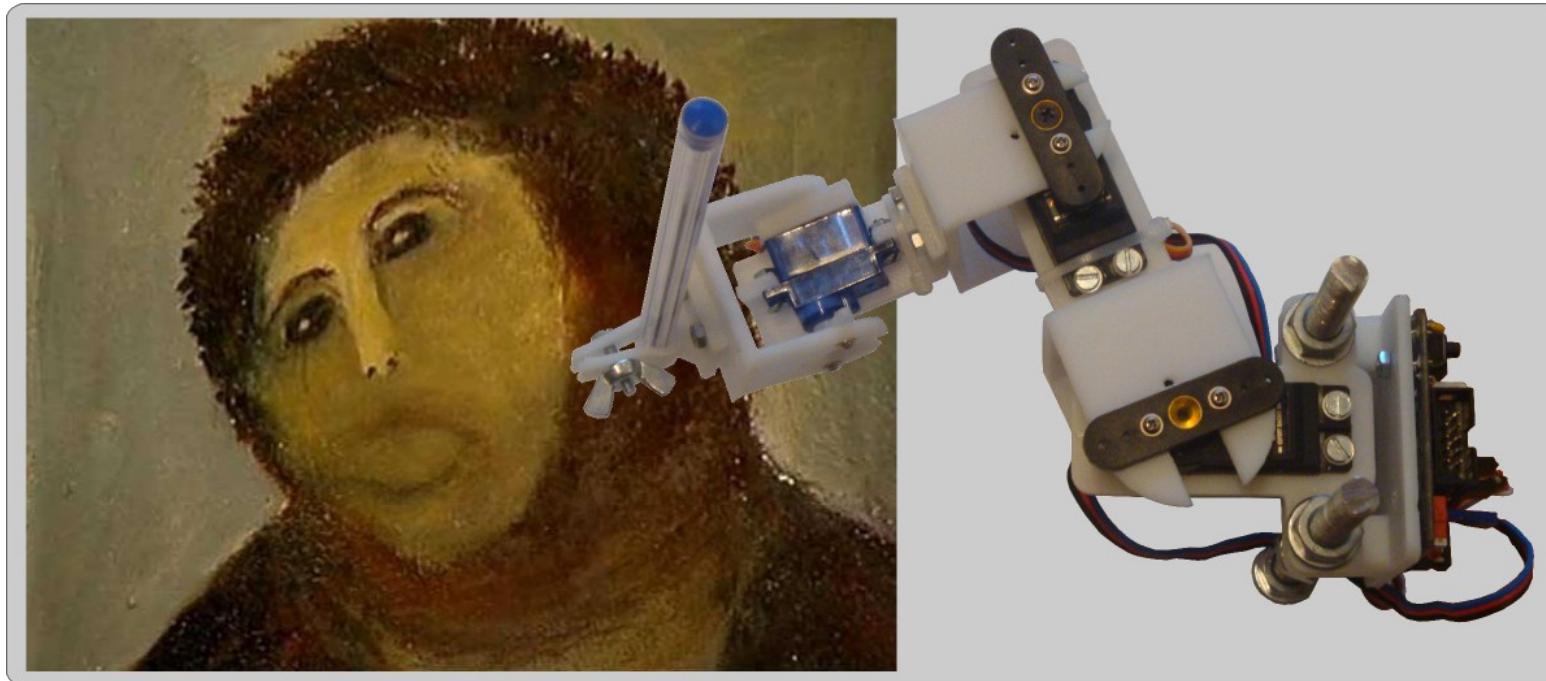
<http://www.thingiverse.com/thing:13442>

<http://www.thingiverse.com/thing:21401>

RoboDraw



iUps! Creo que no he calibrado bien a Robodraw



:-)

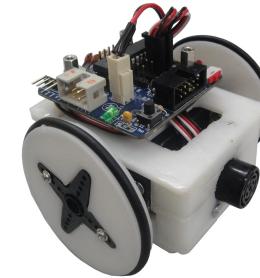
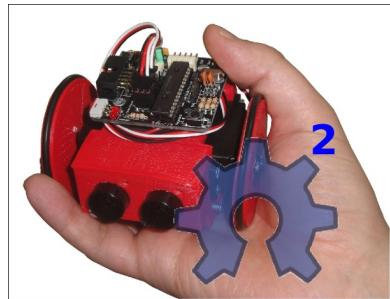
Conclusiones

- Constrúyete tu propia impresora 3D Opensource
- Diseña tus propios robots
- Imprímelos
- Compártelos con la comunidad

¡Que el plástico te acompañe!



PRINTBOTS: Robots Libres e Imprimibles



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Alberto Valero Gómez