**SDG’s PROJECT**

**Ideas :**

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| --- | --- | --- |
| **SDG** | **Problem** | **Solution** |
| 6 and 10 : Clean Water and Sanitation and Reduce Inequalities | Providing people clean water and access to water everywhere | Device that extracts and filters water from the underground, a prototype of a tunnel with a filter that goes from a river/sea to the people |
| 1 and 3 : Poverty and Good Health and Well-Being | Poor don’t have access to health | Low-cost prosthetics with recycled products, sensors which sends you a small electroshock when you feel something, modificate our project  |
| 1 and 4 : Poverty and Education | Giving easier access to education in a way that’s more fun | Game accessible by everybody |
| 7 and 13 : Affordable and Clean Energy and Climate Action  | Electricity | To produce electricity manually or with renewable energy ourselves |
| 12 and 13 : Responsible Consumption and Production and Climate Action | Waste disposals : Reducing the amount of waste or garbage, or find a way to recycle/reduce impacts of plastics, electronics components  |  |

*Project constraints*

* Amazon.fr
Radiospares France
Mouser.fr
* 7 weeks
* 200euros

(Hackaday.IO web link)

Enable site of prosthetics

Combining the two problems together: making a prosthetic hand that helps disabled people but also with the ability to add on the hand a uv water purifier

<https://www.ted.com/playlists/372/designing_for_disability>

<http://www.idd.ie/>

<http://enablingthefuture.org/upper-limb-prosthetics/>

ORDER LIST : <https://e-nable.fr/?page_id=1671> example : FlexiHand
- 3D Printer
- Arduino (to manage the tools for the prosthetic hand, with the motor which will manage the movements of the hand)
- Strings
- 6 Motors
- Captors (
- Magnets

FRAMEWORK

* Format : Device/Art
* Tool List : materials, format, components
* Due Date : June
* Divide the tasks
* Keep track of the cost of every single tool, object needed
* Keep the costs under 200euros

No Bullshit
Expert opinions (active)
(WeBlog) Blog (passive)
Research (active)

Resources
Work/Task Management (Trello)
Communication feed (Slack/Discord)

Documentation
Hackaday.io
Instructables :
http://www.instructables.com/id/Voice-Controlled-Prosthetic-Hand-Forearm/
lopendoc
github

#### <https://hackaday.io/project/109979-wei-ahead><https://trello.com/invite/b/SkfyifDf/8c7587614790aa0f5321f632134a8963/prosthetic-hand-project>[wei-ahead.slack.com](https://wei-ahead.slack.com/%22%20%5Ct%20%22_blank)

Order list :

[https://www.amazon.fr/Elegoo-Carte-ATmega328P-ATMEGA16U2-Arduino/dp/B01N91PVIS/ref=sr\_1\_6?s=electronics&ie=UTF8&qid=1523521711&sr=1-6&keywords=carte+arduino](https://www.amazon.fr/Elegoo-Carte-ATmega328P-ATMEGA16U2-Arduino/dp/B01N91PVIS/ref%3Dsr_1_6?s=electronics&ie=UTF8&qid=1523521711&sr=1-6&keywords=carte+arduino)

[https://www.amazon.fr/Metal-Servo-Gear-Robot-SunFounder/dp/B078Y312YP/ref=sr\_1\_2?ie=UTF8&qid=1523561799&sr=8-2&keywords=servo+motor](https://l.facebook.com/l.php?u=https%3A%2F%2Fwww.amazon.fr%2FMetal-Servo-Gear-Robot-SunFounder%2Fdp%2FB078Y312YP%2Fref%3Dsr_1_2%3Fie%3DUTF8%26qid%3D1523561799%26sr%3D8-2%26keywords%3Dservo%2520motor&h=ATN-kC1MkLd1OmR8M5UQX66Df9jXknuUYT0RxNTC2dq2pXWzcmLUzhCjYeUgADqnDcMvF3xAS8pZ4YIybWsYt2a-tlBKh2bRqq5gdmDOQPQhV_xsGZu5J0LN1G4qKcbYjtsCuQ)

[https://www.amazon.fr/n%C3%A9odyme-diam%C3%A8tre-d%C3%A9paisseur-Traction-Magenesis%C2%AE/dp/B06X977K8L/ref=sr\_1\_1?ie=UTF8&qid=1523519735&sr=8-1&keywords=aimants](https://www.amazon.fr/n%C3%A9odyme-diam%C3%A8tre-d%C3%A9paisseur-Traction-Magenesis%C2%AE/dp/B06X977K8L/ref%3Dsr_1_1?ie=UTF8&qid=1523519735&sr=8-1&keywords=aimants)

[https://www.amazon.fr/KastKing-Première-copolymère-monofilament-fluorocarbone/dp/B01MUPUZNO/ref=sr\_1\_16\_sspa?s=sports&ie=UTF8&qid=1523519615&sr=1-16-spons&keywords=fil%2Bde%2Bpeche%2Bresitant&psc=1&th=1](https://www.amazon.fr/KastKing-Premi%C3%A8re-copolym%C3%A8re-monofilament-fluorocarbone/dp/B01MUPUZNO/ref%3Dsr_1_16_sspa?s=sports&ie=UTF8&qid=1523519615&sr=1-16-spons&keywords=fil%2Bde%2Bpeche%2Bresitant&psc=1&th=1)

[https://www.amazon.fr/Haljia-Boucle-dalimentation-connecteur-Arduino/dp/B01MY9RXIW/ref=sr\_1\_20?s=electronics&ie=UTF8&qid=1523522806&sr=1-20&keywords=batterie+arduino](https://www.amazon.fr/Haljia-Boucle-dalimentation-connecteur-Arduino/dp/B01MY9RXIW/ref%3Dsr_1_20?s=electronics&ie=UTF8&qid=1523522806&sr=1-20&keywords=batterie+arduino)

[https://www.amazon.fr/gp/product/B018TIWR32/ref=ox\_sc\_act\_title\_1?smid=A2PIW95AGLR8G3&psc=1](https://www.amazon.fr/gp/product/B018TIWR32/ref%3Dox_sc_act_title_1?smid=A2PIW95AGLR8G3&psc=1)

[https://www.amazon.fr/Varta-Piles-Alcalines-longue-durée/dp/B005UJNXZ0/ref=sr\_1\_4?s=electronics&ie=UTF8&qid=1523522928&sr=1-4&keywords=batterie+9V](https://www.amazon.fr/Varta-Piles-Alcalines-longue-dur%C3%A9e/dp/B005UJNXZ0/ref%3Dsr_1_4?s=electronics&ie=UTF8&qid=1523522928&sr=1-4&keywords=batterie+9V)