



Vrije  
Universiteit  
Brussel

# **Gereedschap voor ingenieurs**

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# Multimeter

VDC: 600 V  $\pm$  1 V; 200 mV  $\pm$  5 mV

IDC: 10 A; 200 mA  $\pm$  0.1 mA; 200  $\mu$ A  $\pm$  1  $\mu$ A

weerstand: 2 M $\Omega$  bereik, resolutie 200  $\Omega$   $\pm$  1  $\Omega$

soepele probes

AC optioneel

auto power off

diodes



**Richtprijs: € 15 – € 30**

# Schroevendraaiers

Richtprijs: € 15 - € 25



Richtprijs: € 5 - € 10



- plat en kruis
- set met wisselbare koppen
- magnetisch



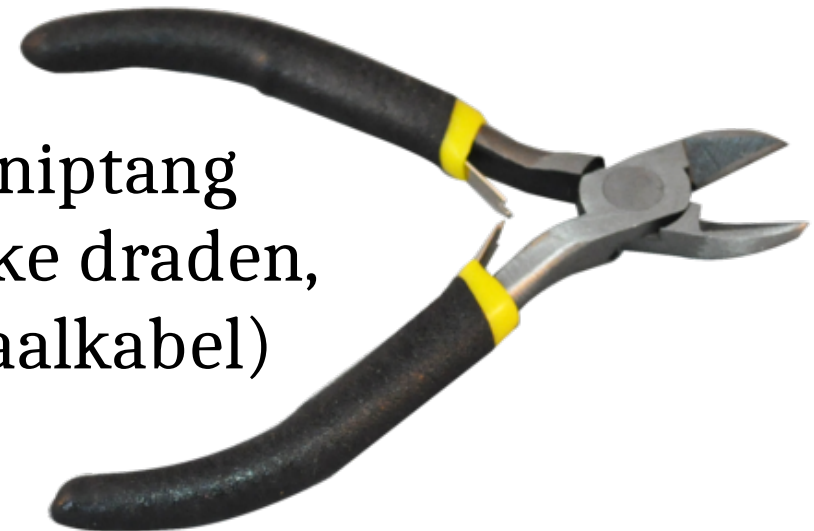
# Tangen



striptang  
(om draden te strippen)



wire cutter  
(elektronica)

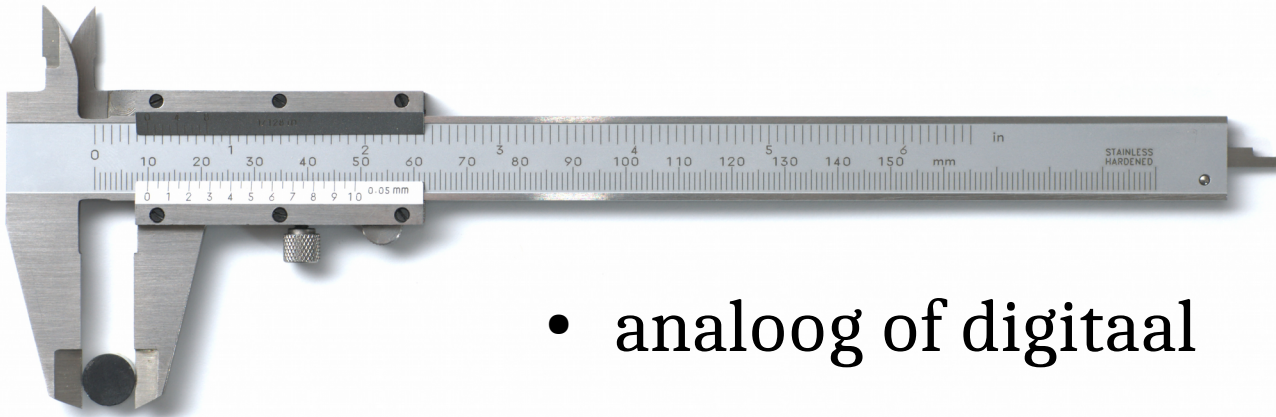


kniptang  
(dikke draden,  
staalkabel)



**Richtprijs: € 5 – € 10**

# Schuifmaat

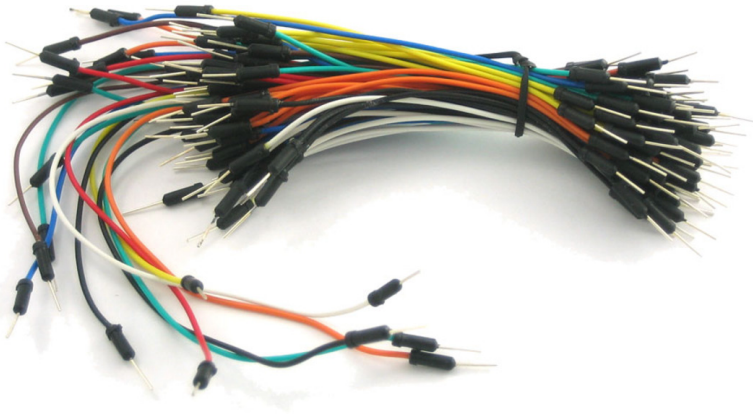


- analoog of digitaal
- **geen** plastic
- in beschermend etui (precisietoestel!)

**Richtprijs: € 15 – € 50**

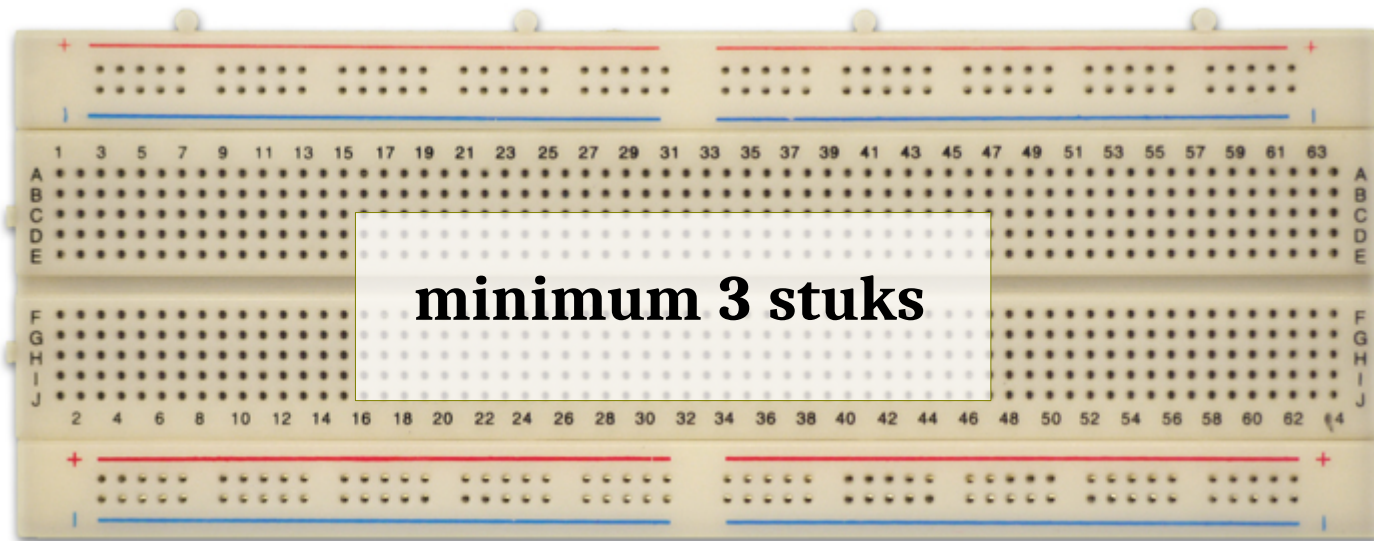


# Breadboard



- 3 x breadboard
- power rails onder en boven
- soepele breadboardkabels

**Richtprijs (voor 3): € 10 - € 25**



# Arduino UNO



- 8-bit microcontroller board
- volledig open source
- kies model met DIP socket
- voeding vanuit de pc
- USB printerkabel nodig

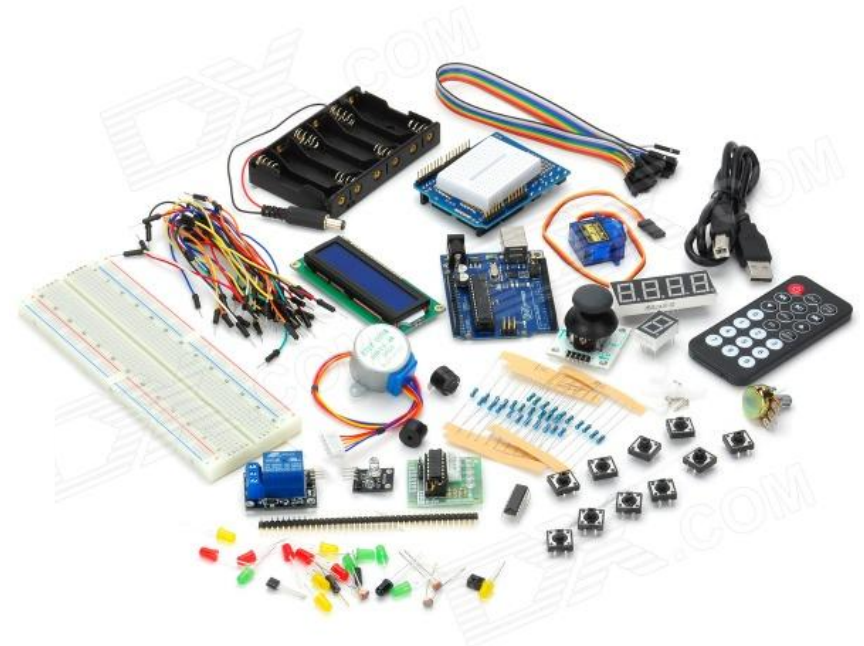
**Richtprijs: € 5 – € 25**

Best value:

Arduino UNO kits

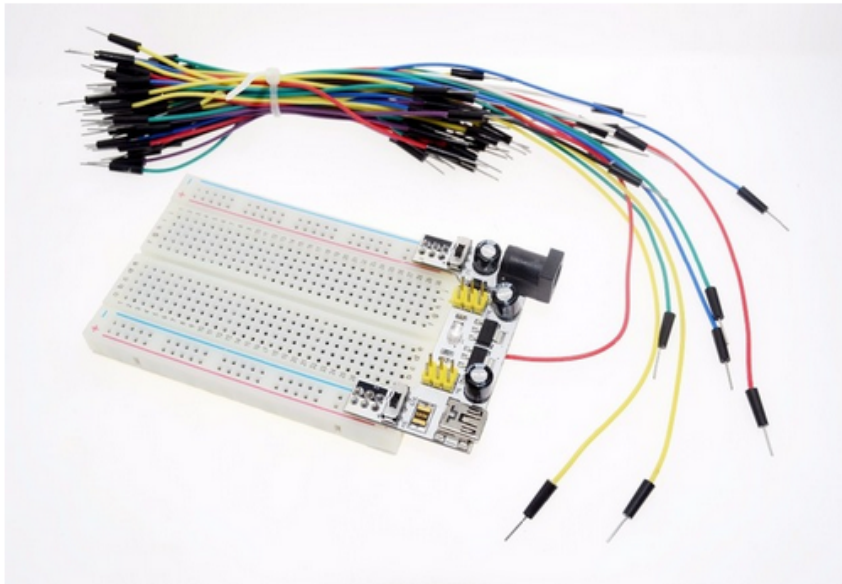
= Arduino UNO + breadboard

+ USB + kabels + sensors + ...



Store: SHEHNZHEN CAIZHIXING ELECTRONIC CO.,LTD 9141 97.6% Positive feedback Follow

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Mouse over to zoom in

### 3.3V/5V MB102 Breadboard power module+ 400 points Solderless Prototype Bread board kit +65 Flexible jumper wires

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Price: **US \$3.50** / piece

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# Laptop

## Medion Akoya E7415

- Intel i3-5005U @ 2 GHz
- 8 GB DDR3 @ 1.6 GHz
- Intel HD 5500, 17.3"
- Numeric keypad
- 1 TB HDD
- HDMI & VGA
- 4 x USB





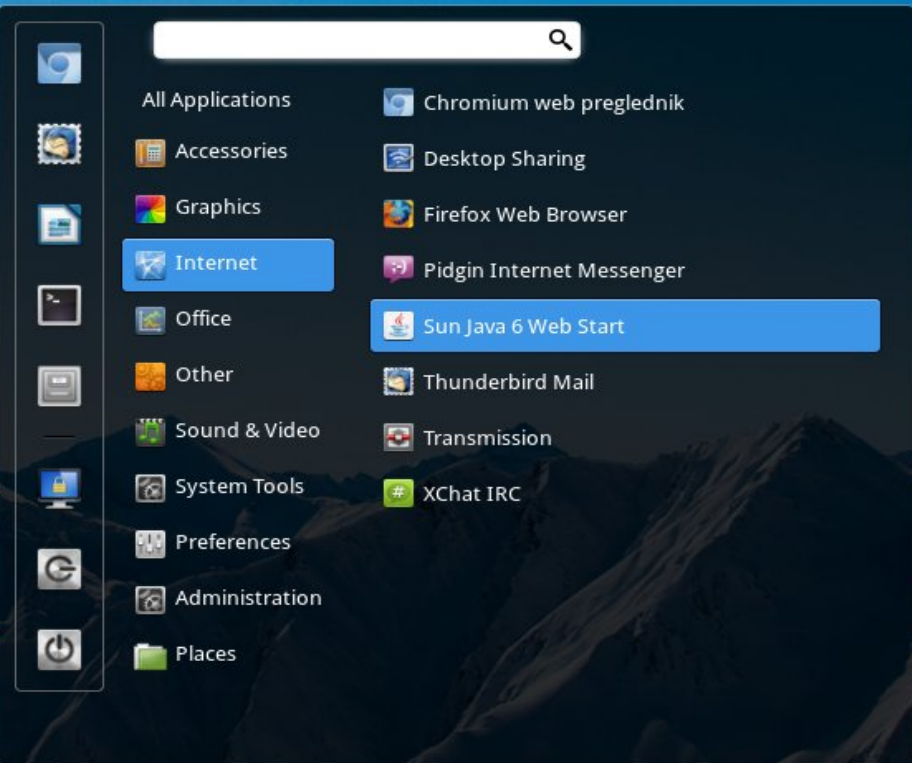
linux Mint  
from freedom came elegance

Laatste versie: Linux Mint 18 Sarah

<https://www.linuxmint.com>

Cinnamon, Mate of Xfce desktop

Alternatief: Ubuntu (shared repos)



# Virtualisatie op Linux Mint

Virtualisatie: VMWARE + Win 7



+



Compatibility framework:



# Collaboration



**<https://indi-courses.slack.com/signup>**

- channel per vak (bv. elektronica, informatica, ...)
- client cross platform: Linux, Windows, Android, ...
- chat, file sharing, URL sharing, ...

# Cloud storage



**<https://owncloud.vub.ac.be>**

- 4 GB file storage op VUB server
- synchroniseert met lokale map op je pc
- nuttig voor back-ups of delen van grote bestanden
- client cross platform: Linux en Windows