

Curso iniciación a Arduino: Open Hardware

Universidad de Granada



ElCacharreo.com

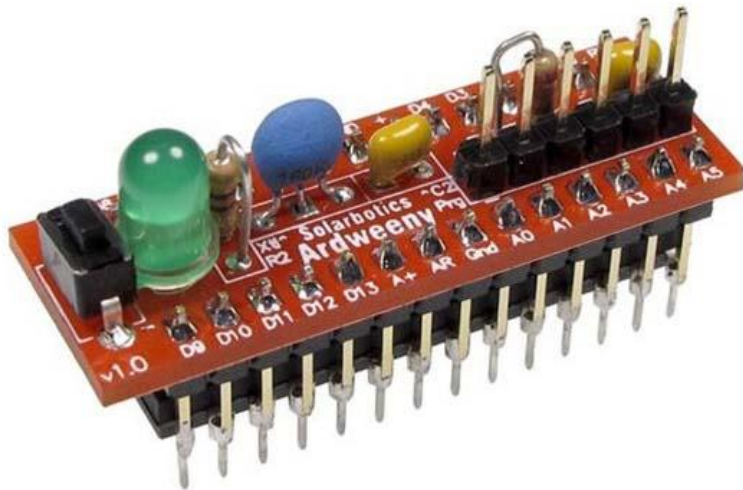
José Antonio Vacas

Open Hardware = Hardware Libre

Libre como no libertad, que no gratuito

[software libre](#)

[hardware libre](#)



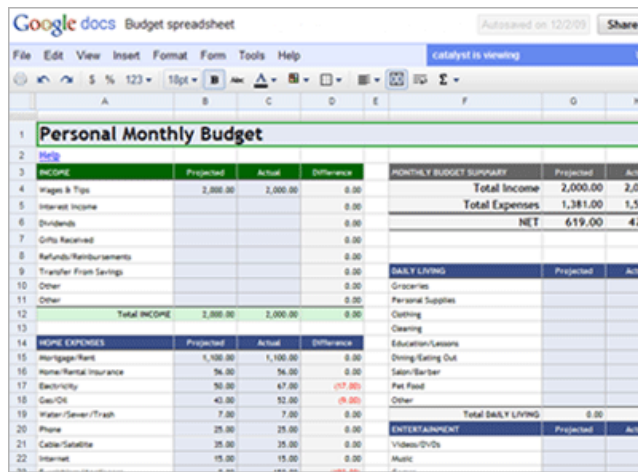
[ejemplo](#)
[como montarlo](#)



Open Hardware: trabajo colaborativo

Hablando de
Hardware

Hablando de Colaboración



The screenshot shows a Google Docs spreadsheet titled "Budget spreadsheet" with a menu bar (File, Edit, View, Insert, Format, Form, Tools, Help) and a toolbar. The spreadsheet content is as follows:

Personal Monthly Budget			
	Projected	Actual	Difference
INCOME			
Wages & Tips	2,000.00	2,000.00	0.00
Interest Income			0.00
Dividends			0.00
Gifts Received			0.00
Refunds/Reimbursements			0.00
Transfer From Savings			0.00
Other			0.00
Total INCOME	2,000.00	2,000.00	0.00
MONTHLY BUDGET SUMMARY	Projected	Actual	
Total Income	2,000.00	2,000.00	
Total Expenses	1,381.00	1,381.00	
NET	619.00	619.00	0.00
EXPENSES			
Home/Rent/Insurance	1,100.00	1,100.00	0.00
Electricity	50.00	47.00	(3.00)
Gas/Oil	40.00	52.00	(12.00)
Water/Sewer/Trash	7.00	7.00	0.00
Phone	25.00	25.00	0.00
Cable/Satellite	35.00	35.00	0.00
Internet	15.00	15.00	0.00
MONTHLY BUDGET SUMMARY	Projected	Actual	
Groceries			
Personal Supplies			
Clothing			
Cleaning			
Education/Lessons			
Dining/Eating Out			
Salon/Barber			
Pet Food			
Other			
Total MONTHLY BUDGET SUMMARY	0.00	0.00	0.00
ENTERTAINMENT			
Video/DVDs			
Music			

Trabajo colaborativo

Todas las versiones de
arduino conocidas



Comunidades de Makers

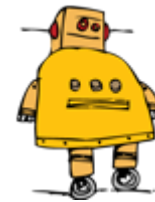
Movimiento Makers

(Los que hacen)



MakeProjects.com

DIY: Do It Yourself
Hazlo tu mismo



Instructables.com

No se limita a proyectos electrónicos, sino de todo tipo, por ejemplo [coches eléctricos](#)



¿Universidad Libre?

¿Free University?

- [Udacity](#): Sebastian Thrunel
- [Coursera](#): Stanford, Berkeley y Michigan.
- Mit: [6002x](#) sobre electrónica y circuitos. ¡iCertificados!!
- [Khan academy](#): 3000 vídeos
- [Yale Open Courses](#): fisica, quimica, idiomas, historia,

