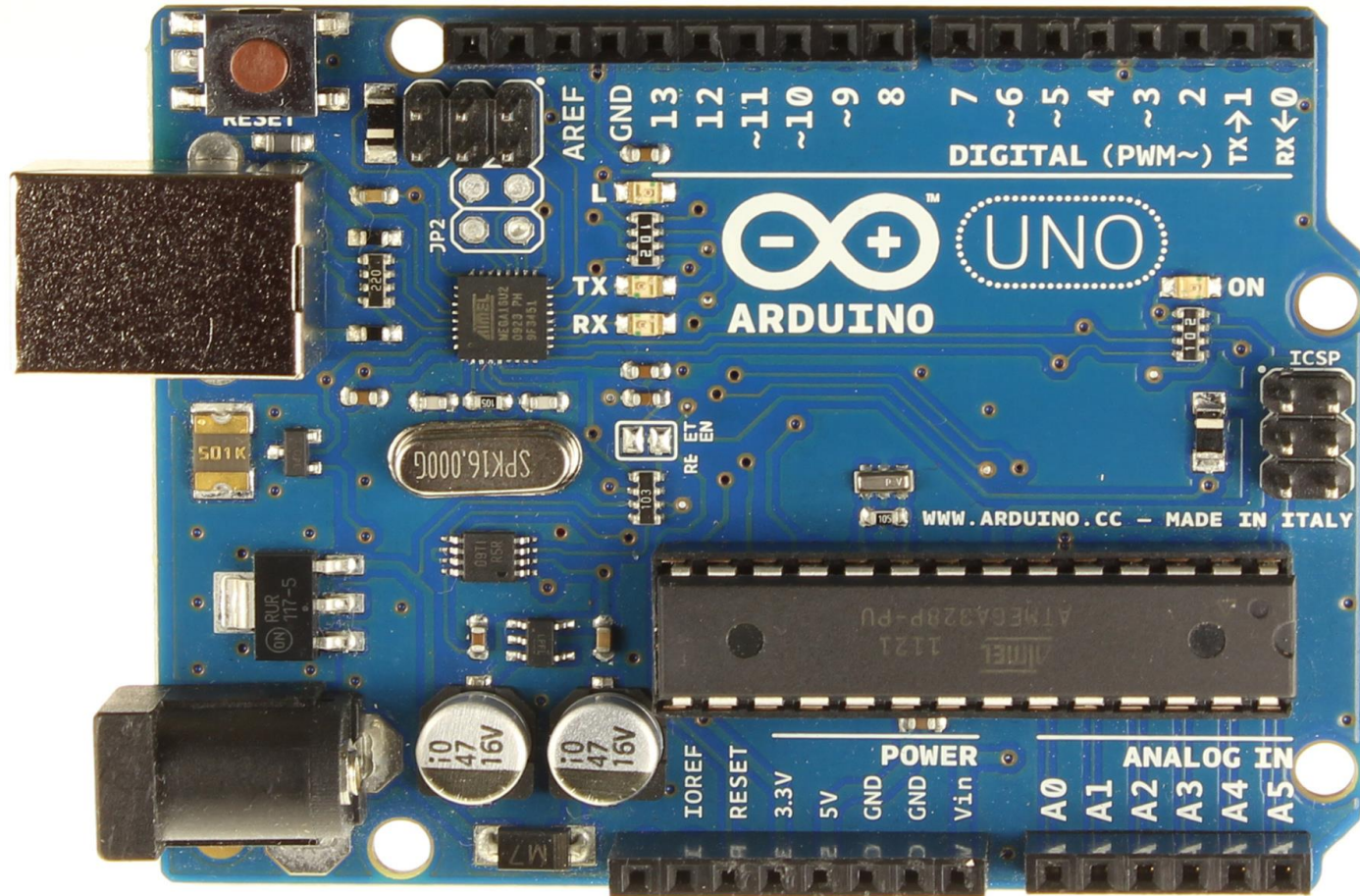


Hands On



Bernhard Zender

UBC Engineering Physics

bzender@phas.ubc.ca



A large family of little computers



ARDUINO UNO



ARDUINO 101



ARDUINO PRO



ARDUINO MICRO



ARDUINO PRO MINI



ARDUINO NANO



ARDUINO STARTER KIT



ARDUINO BASIC KIT



ARDUINO MOTOR SHIELD



ARDUINO MEGA 2560



ARDUINO ZERO



ARDUINO DUE



ARDUINO PROTO SHIELD



ARDUINO YUN



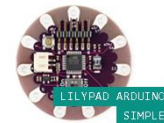
ARDUINO ETHERNET SHIELD



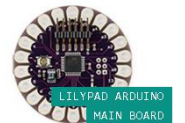
ARDUINO GSM SHIELD



ARDUINO GEMMA



LILYPAD ARDUINO SIMPLE



LILYPAD ARDUINO MAIN BOARD



LILYPAD ARDUINO USB



LILYPAD ARDUINO SIMPLE SNAP

now firmly integrated at UBC

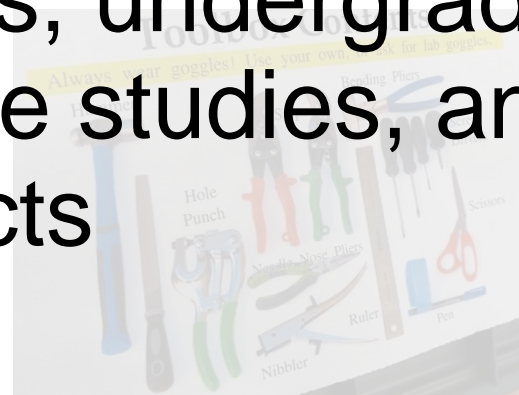
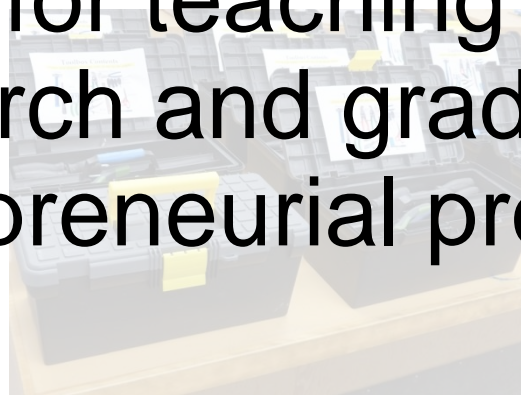
- First year Applied Science [Arduino Labs](#)
- First year Applied Science [Hand Tools Labs](#)

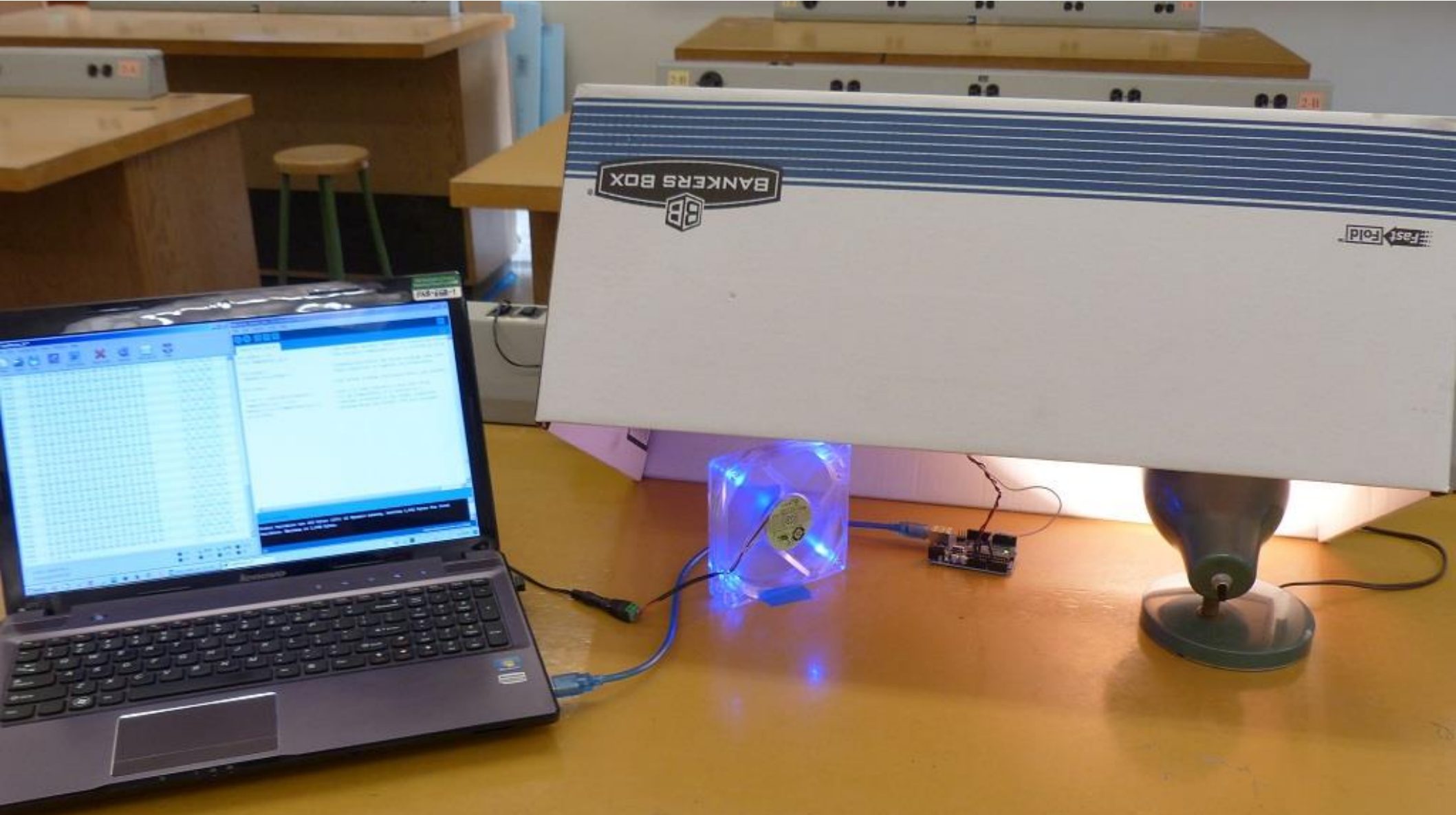


- Once they know how easy it is to use computers to quickly solve problems, there is no looking back.

now firmly integrated at UBC

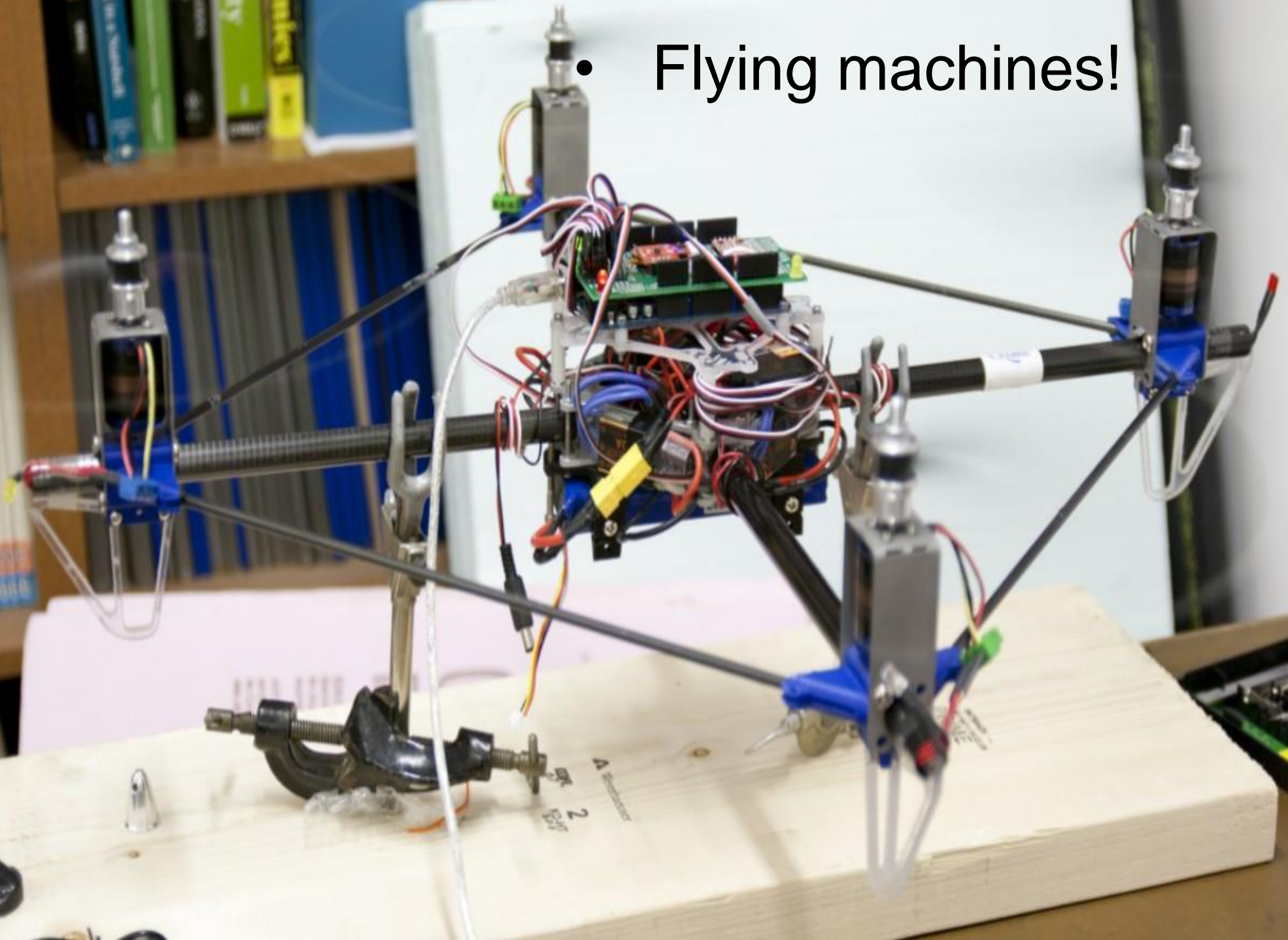
- Arduino boards and more complex single board computers like the Raspberry Pi or the Beagleboard are now commonplace throughout studies
- Used for teaching labs, undergrad projects, research and graduate studies, and entrepreneurial projects





- Simulating a home heating system, to determine the R value of the “house”

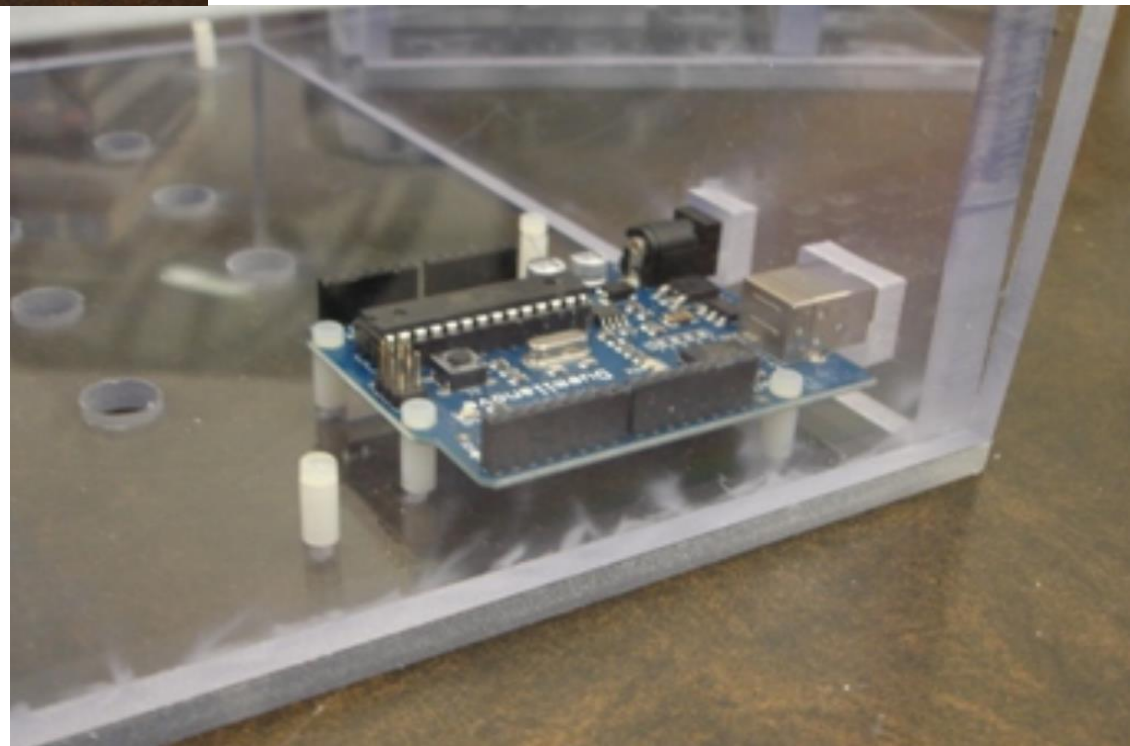
- Flying machines!

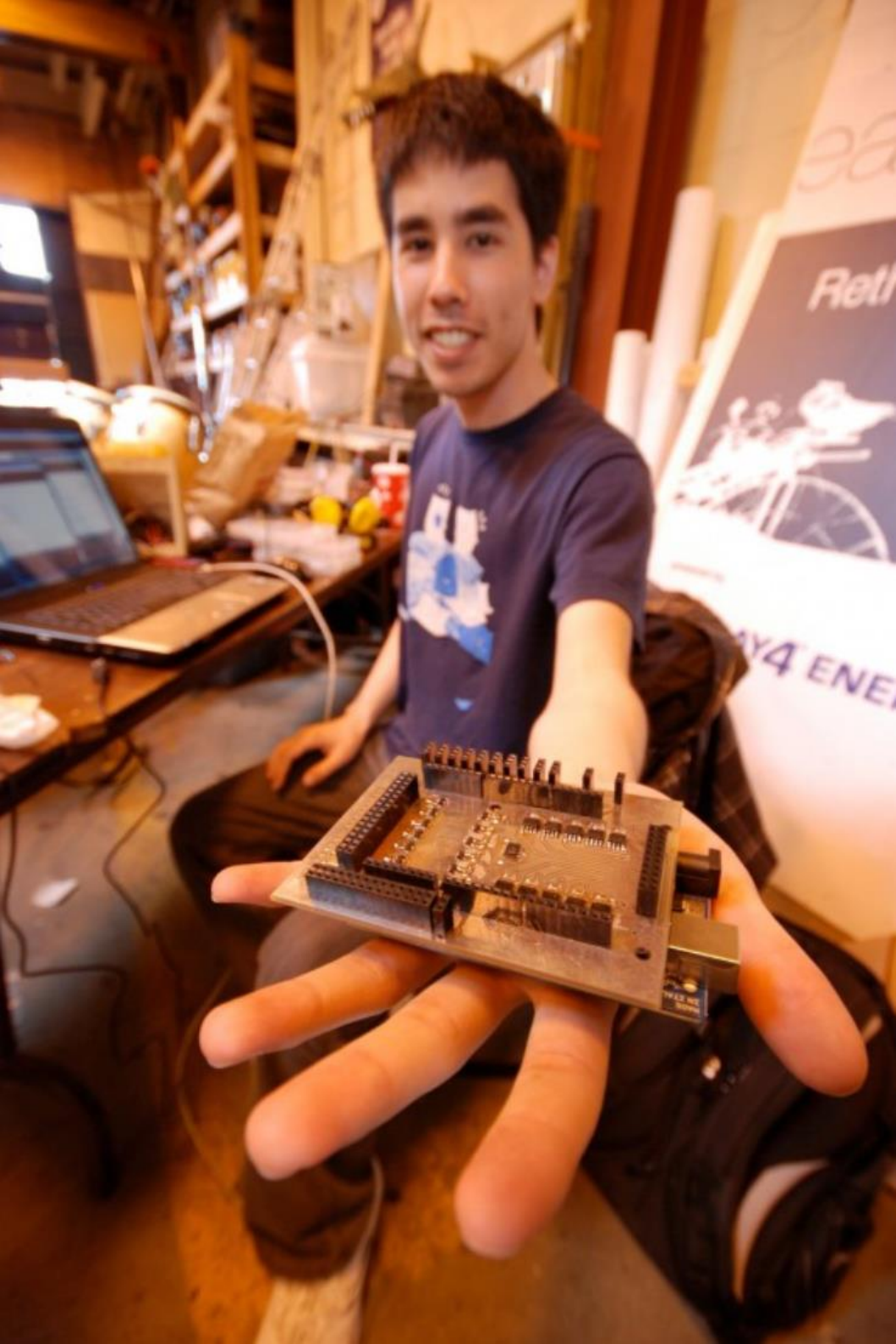




- Music!

DJ-Midi-Controller Project
Engineering Physics





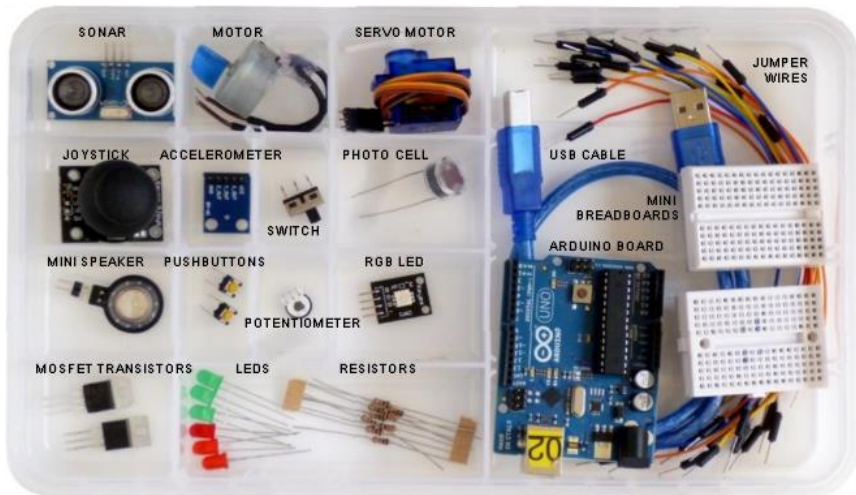
- and, snakes!

TITANOBOA

EatArt Project



~\$50



\$100



\$3.69 US



Latest Version UNO R3 ATMEGA328P-16AU CH340G Micro USB
Compatible to Arduino

\$3.69

From China

Buy It Now

Free international shipping

184 sold

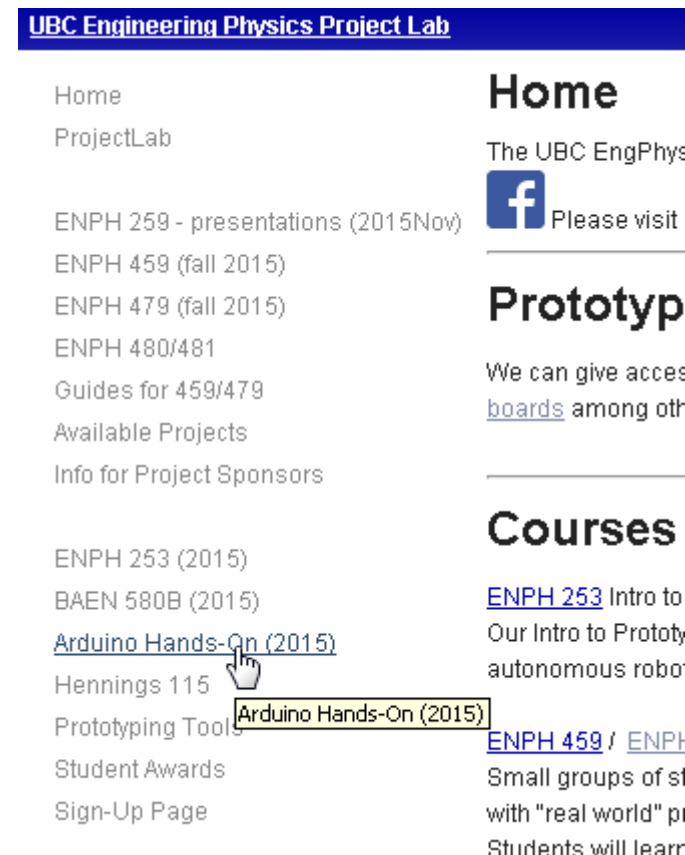
....but use with caution.

find us



A screenshot of a Google search interface. The search bar contains the text "eng phys project lab". Below the search bar, the "Web" tab is selected and highlighted with a blue underline. Other tabs include "Videos", "Images", "News", and "More". Below the tabs, it says "About 106,000 results (0.34 seconds)". The first search result is for "UBC Engineering Physics Project Lab" with the URL "projectlab.engphys.ubc.ca/".

then click on



A screenshot of the UBC Engineering Physics Project Lab website. The page has a blue header with the text "UBC Engineering Physics Project Lab". Below the header is a navigation menu with the following items: Home, ProjectLab, ENPH 259 - presentations (2015Nov), ENPH 459 (fall 2015), ENPH 479 (fall 2015), ENPH 480/481, Guides for 459/479, Available Projects, Info for Project Sponsors, ENPH 253 (2015), BAEN 580B (2015), Arduino Hands-On (2015), Hennings 115, Prototyping Tools, Student Awards, and Sign-Up Page. A mouse cursor is pointing at the "Arduino Hands-On (2015)" link, which is highlighted with a black box. To the right of the navigation menu, there are sections for "Home", "Prototyp", and "Courses". The "Home" section includes a Facebook icon and the text "Please visit". The "Prototyp" section includes the text "We can give access to boards among other". The "Courses" section includes the text "ENPH 253 Intro to Our Intro to Prototyping autonomous robots", "ENPH 459 / ENPH", "Small groups of students with 'real world' projects. Students will learn", and "Students will learn".

Watch & Do

[Home](#) » **Arduino Hands-On (2015)**

Software Download & Box Contents found here:



Components to use with Arduino (click picture for details):

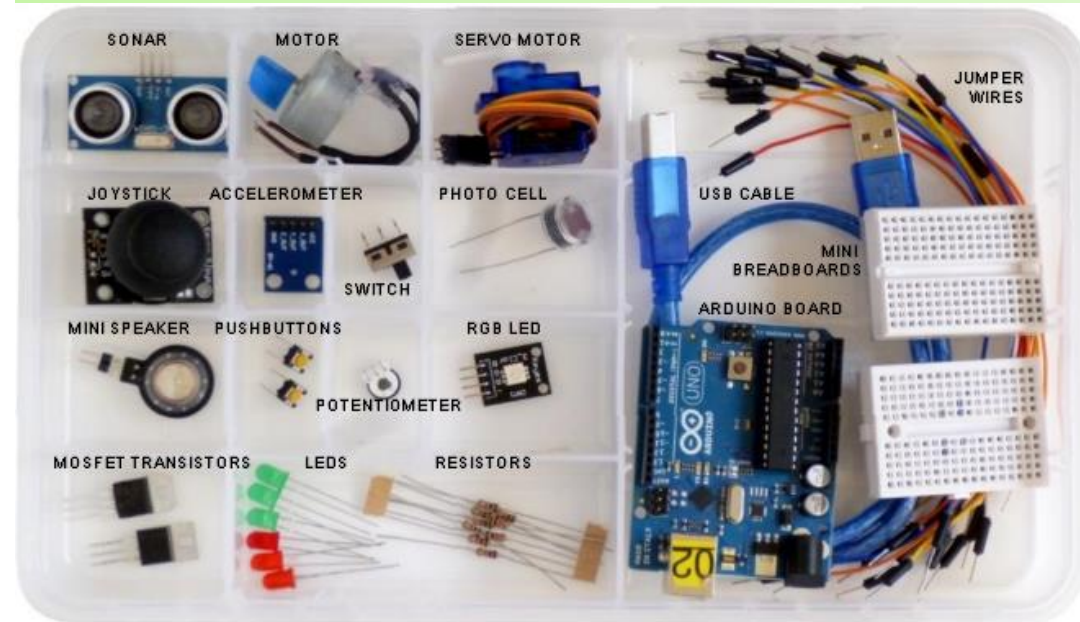


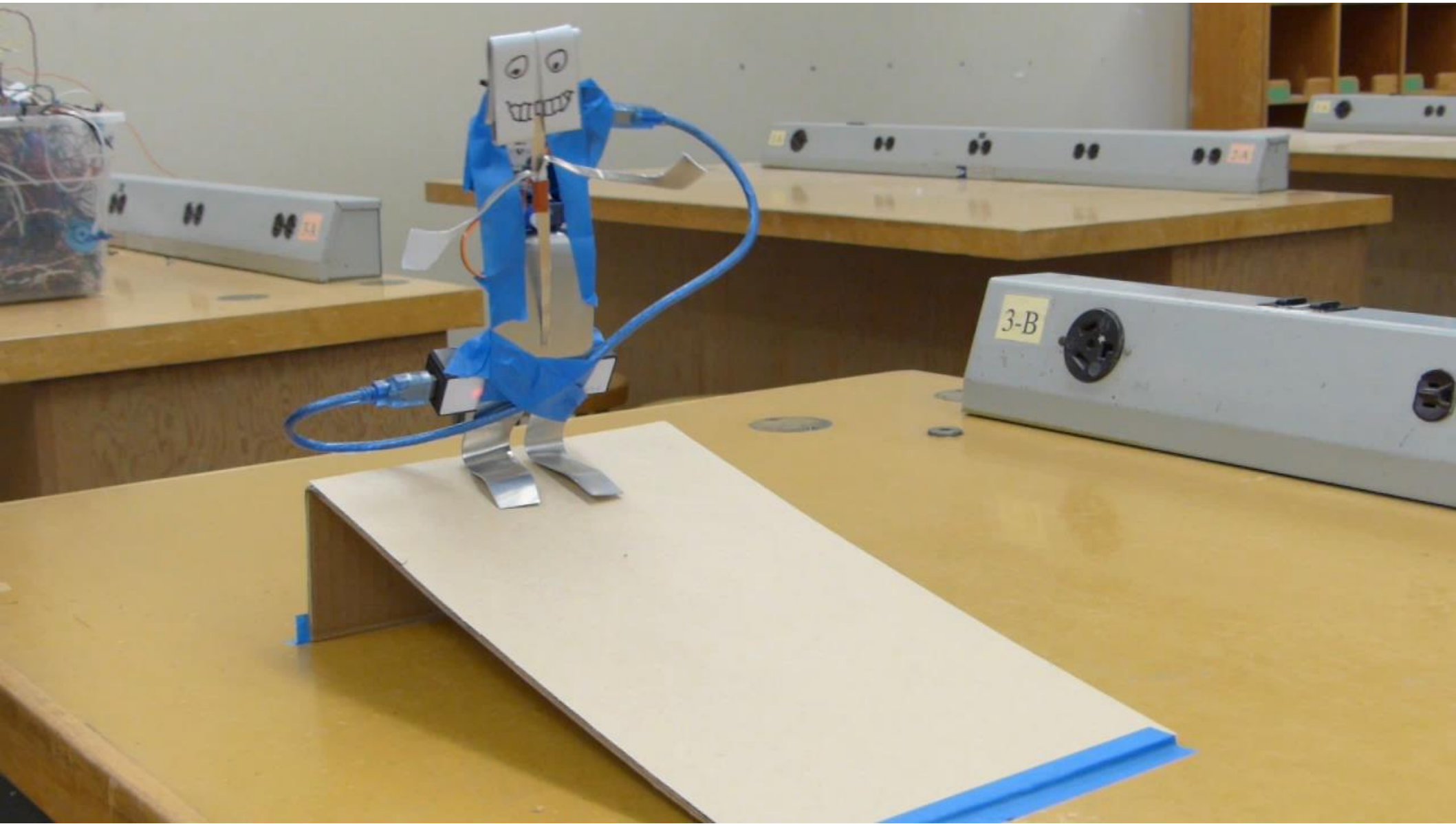
References

- [UBC bookstore Arduino kit](#)
- [Vancouver Hack Space](#)
- [Vancouver MakerLabs](#)
- [Where else to buy](#) Arduino & much more

[Engineering Physics Project Lab link](#)

[link to website](#)





[video link](#)

contact

Bernhard Zender

UBC Engineering Physics

bzender@phas.ubc.ca