



Supporting the Nation of Makers Initiative

CUNY IT Conference
December 2nd, 2016

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NATION OF MAKERS

Make:

9 DIY ROBOT PROJECTS

BUILD THIS Self-Balancing Rover at Home

makezine.com | makerfaire.com | makershed.com

28 HOW-TO BUILDS

- High-Speed Splash Photography
- Raspberry Pi Gaming Arcade
- Kids' DIY Play Furniture

3D PRINTABLE HUMANOID

MEET INMOOV: Your Life-Size Animatronic Helper Sees, Hears, and Speaks

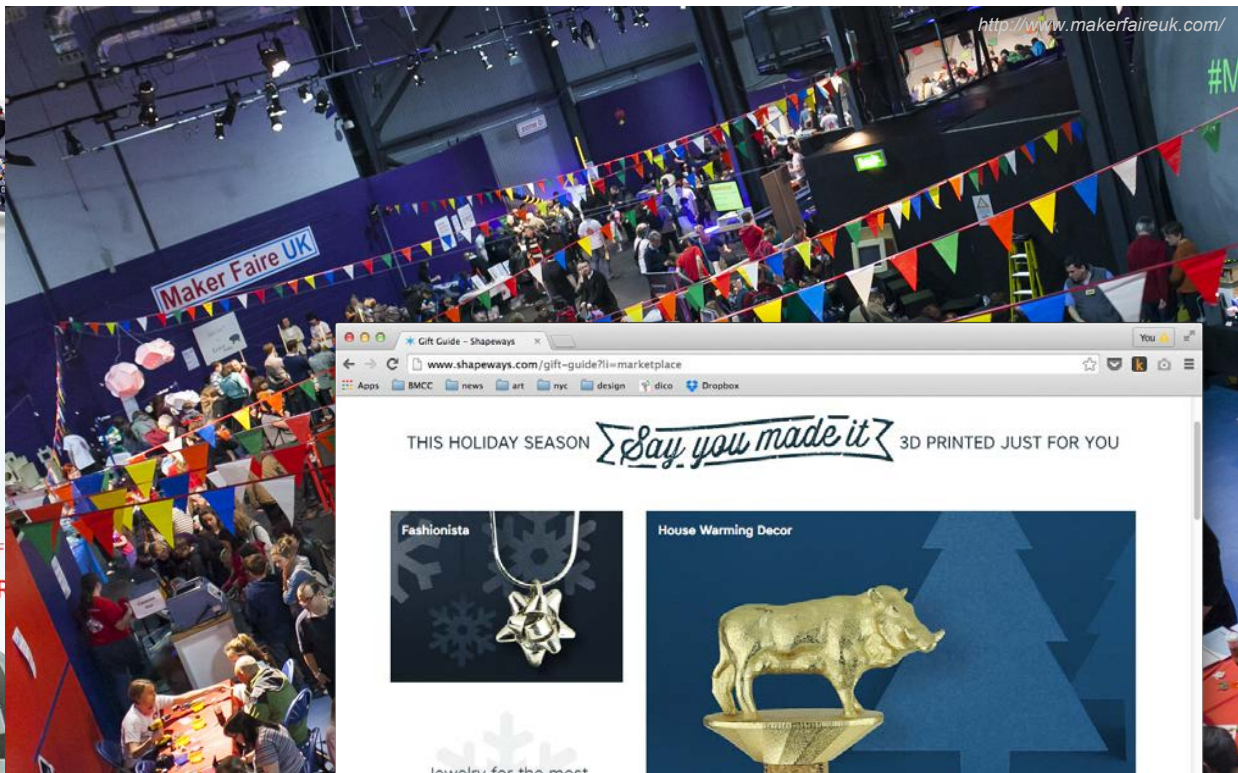
COMBAT BOTS:

They're Big, They're Bad, and They're Back!



HOW SHENZHEN BECAME THE CENTER OF MAKER MANUFACTURE

Vol. 45 June/July 2015
<http://www.makershed.com/collections/make-magazine>



<http://www.makerfaireuk.com/>

Gift Guide - Shapeways

www.shapeways.com/gift-guide?li=marketplace

THIS HOLIDAY SEASON *Say you made it* 3D PRINTED JUST FOR YOU

Fashionista
Jewelry for the most adorable cat lady.

House Warming Decor
A golden pig figurine on a pedestal.

Gadgets, Personalized

Build Their Train Set

Animal Lovers

<http://www.shapeways.com/>



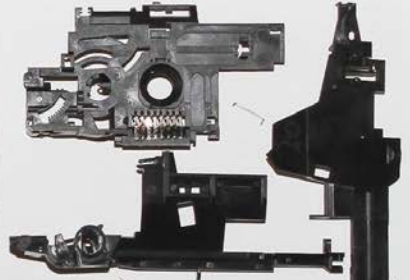
NYCRESISTOR



YORK College

<http://www.the-bridge.cc>



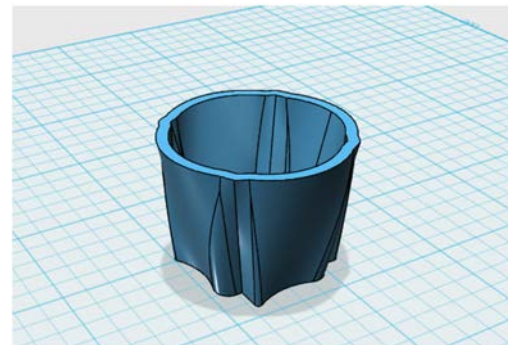
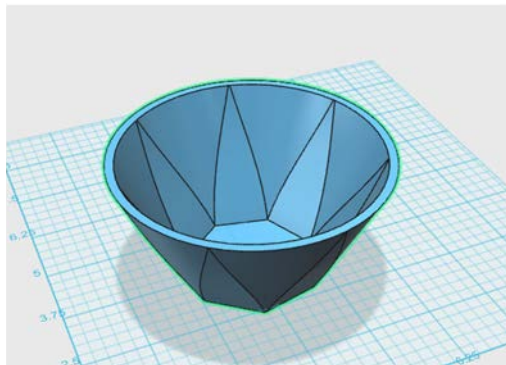




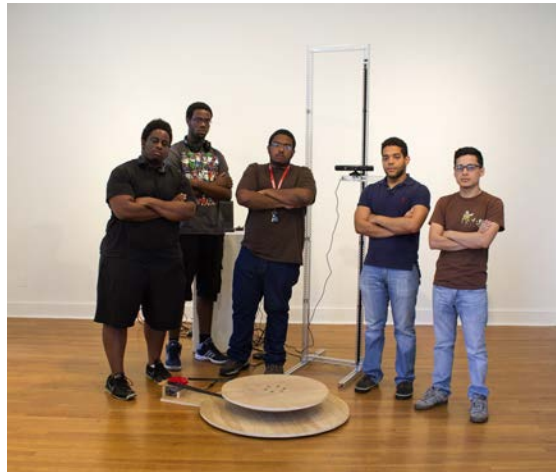
YORK College Astrobotics

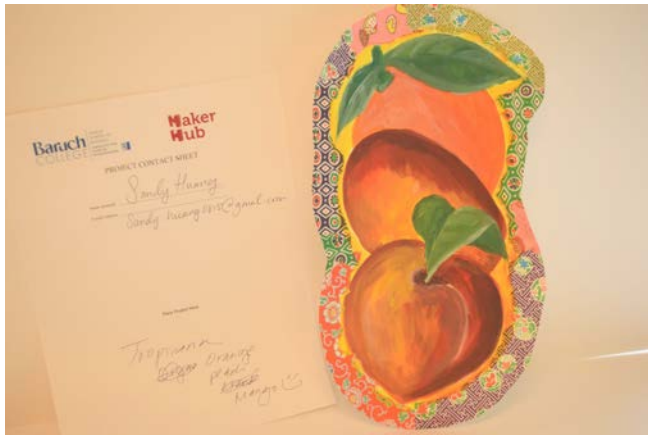
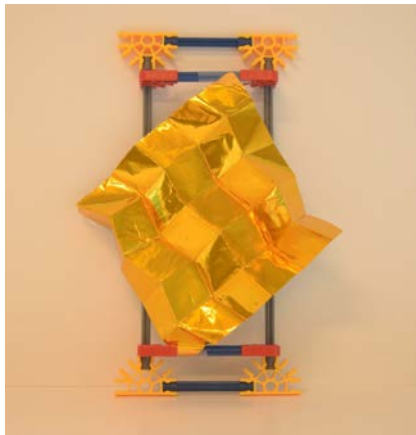


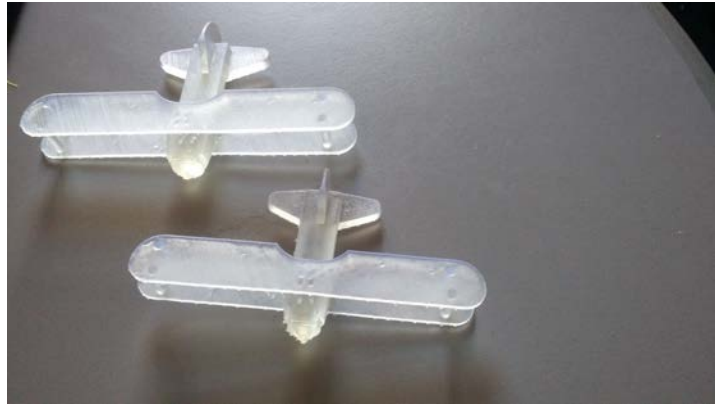
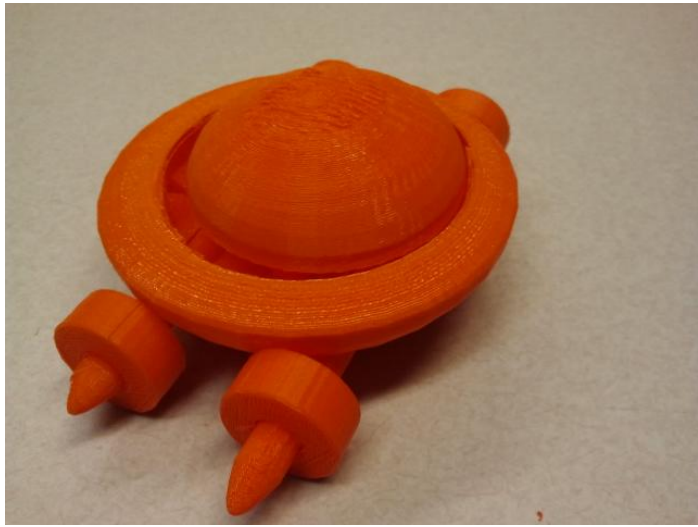






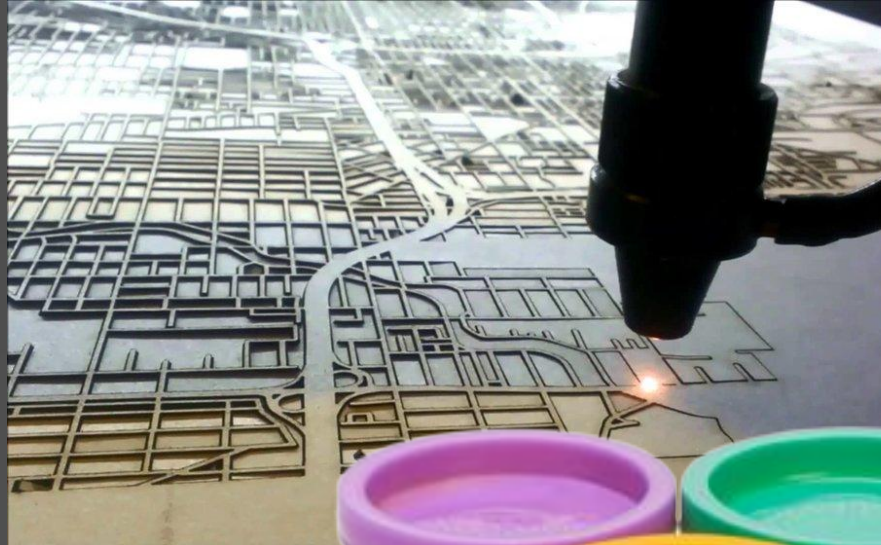






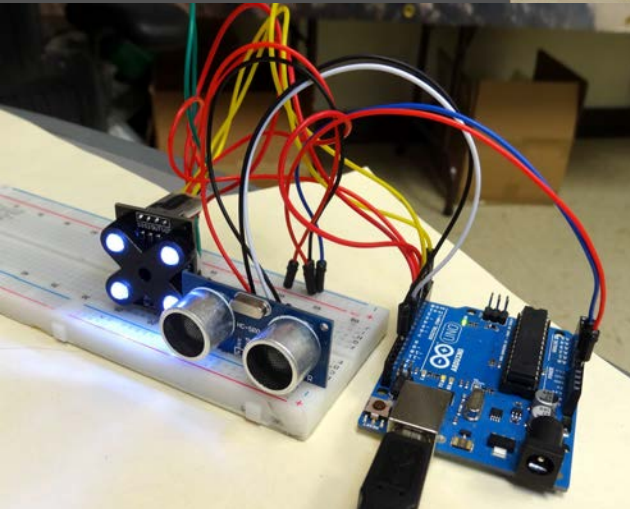


<http://3dprinterusa.com/3d-printers-product/makerbot-replicator/>
[t-3d-printing/makerbot-replicator/](http://3d-printing/makerbot-replicator/)



<https://www.emaze.com/@AQOZCW/play-doh>

https://en.wikipedia.org/wiki/History_of_Lego



<http://www.foptechboy.com/using-python-with-arduino-lessons/>



<https://maas.museum/event/korg-littlebits/>

Questions regarding...

Curriculum

Space / Equipment

Safety / Maintenance

Extracurricular use

Curriculum

- Should entirely new courses be developed and/or new modules?
- How to determine the sequence of courses/skills?
- What are the opportunities for interdisciplinary courses?
- How to work around large class sizes?
- What are the benefits of introducing “maker” skills during foundations?

Space/Equipment

- Do we need a dedicated space?
- How much/what type of equipment do we need?
 - What's the bare minimum?
 - What would a “dream list” consist of?
- What are the pros and cons of a college-wide vs. a departmental space?

Safety/Maintenance

- How to ensure that students use the tools safely?
 - Training? Waivers?
- What tools require ventilation?
- Who is responsible for maintaining the equipment?
- Who is responsible for buying materials?
- Are students allowed to use tools without supervision?
- How many lab technicians (if any) work in the space?
 - Schedule?
- Where does the funding come from (materials, repairs, salaries)?

Extracurricular

- What type of workshops to organize?
 - College-wide? CUNY-wide? Open to the public?
- How to utilize the makerspace as a recruitment tool?
- How to utilize the makerspace as a bridge between junior and senior colleges?

Makerspaces in NYC universities

Private universities

- ITP Interactive Telecommunications Program at NYU
- NYU Tandon School of Engineering Makerspace (NYU Polytechnic)
- The New School - Parsons

CUNY

- York College
- BCC College
- HOSTOS College
- City College
- CityTech College
- Queens College
- CUNY Grad Center (in the process of being built)

THANK YOU!

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