

Healthcare Multiplied By 3D Printing

Our Newest “HCx3DP Album of Innovation”

The Latest In The Accelerating Technological Developments In HCx3DP:
A Visual Presentation Of Medical Marvels, Bio Wonders & More To Come...

Presented by **3DP Media** at the *HCx3DP Meetup New York*,
in Manhattan, 3 February 2015 (Rev #7)



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Building Community Via 3D Printing

Land Grant, Founder

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- **Land Grant:** *HCx3DP Meetup NY* Organizer & Fndr, 3DP Media
- Media House | Think Tank | Event Producer | Product Designer
- Publisher/Blogger NYC3DP.com & “This Week in NYC3DP”
- Contributing Writer, NYC *for* 3DPI (3D Printing Industry Ltd.)
- 3DP-Business Tweeting: [@NYC3DPLand](https://twitter.com/NYC3DPLand) & [@land_grant](https://twitter.com/land_grant)



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Slide # 2

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- **Our Evening's Agenda:**
 - Orientation; Announcements; Introductions
 - Attendee Self-Intros; Expectations; #1 Personal Goal
 - Our Latest Rev of *"HCx3DP NY Album of Innovation"*
 - Video Tour of NRI's 3D Printing Lab
 - Fab Labs, Medical Devices & DIY/DIT Healthcare
 - 3DP-Retail's Coming Role in DIY/DIT Healthcare
 - Roundtable Discussion with Audience Interaction
 - Audience Polling | Suggestions | Networking



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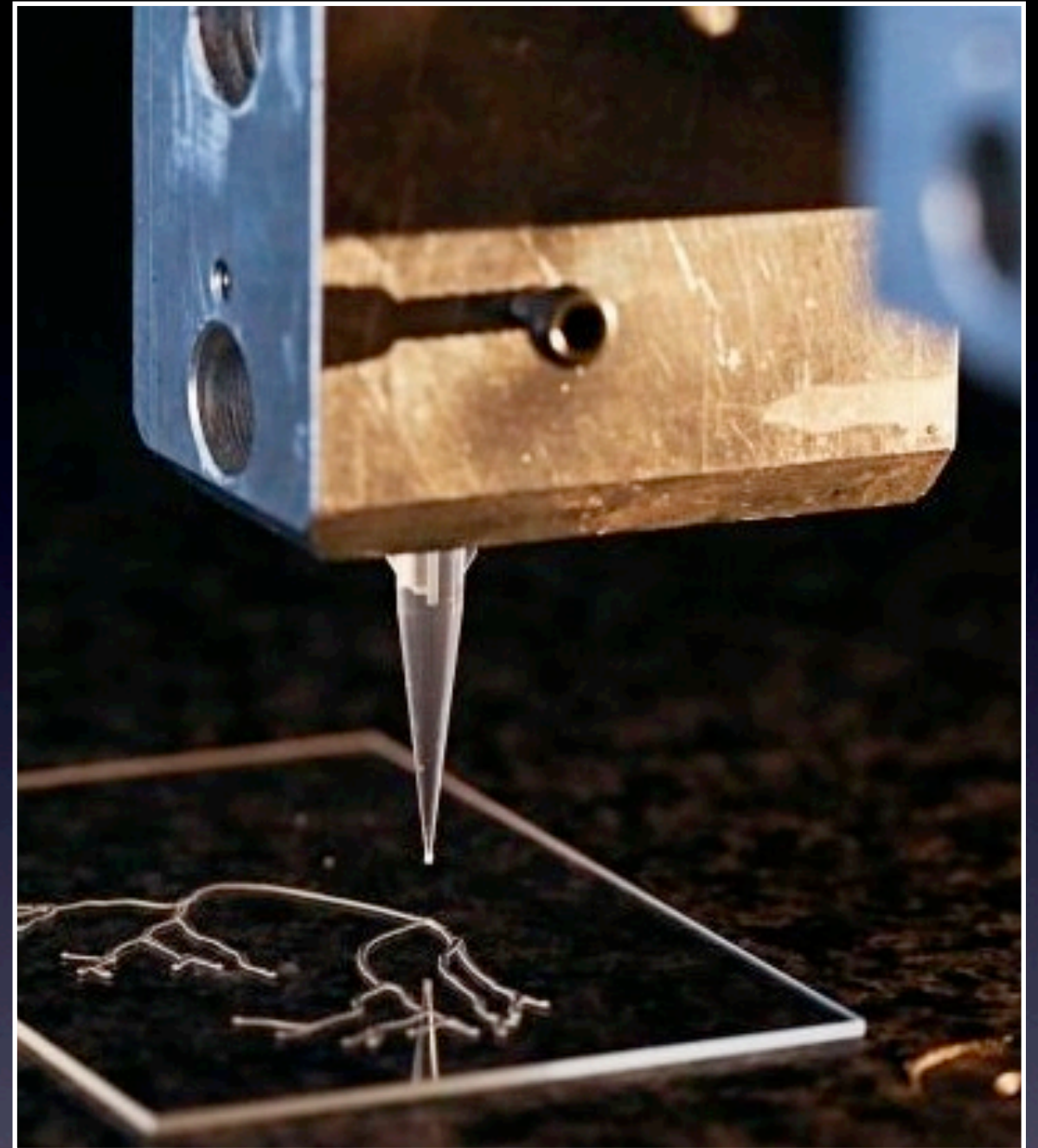
- **Healthcare** => **Fastest-Growing Segment in Booming 3DP**
- **NYC** => **THE 3D Printing Center of Innovation in U.S.**
- **NYC** => **THE World's Largest Locus of Higher Ed Institutions**
- **NYC** => **Metro-Area, World's Pharma Capital (60% of U.S Ind.)**
- **NYState** => **Ranked #1 in U.S. as Life Sciences Org. Location**
- **NYC** => **THE Largest U.S. HC Employee-Pool : 665K Workers**
- **NYC** => **Tech Employment: Fastest Growing Sector: 300K Wkrs**
- **NYC** => **THE Venue for 1st HC/3DP Industrial-Segment Cluster**
- **HCx3DP NY** => **Our Goal: World's #1 HC/3DP Cluster HQ !!!**



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- **THE Best Current 3DP Overview:**
 - “PRINT THYSELF: How 3D Printing Is Revolutionizing Medicine”
 - Jerome Groopman, MD
 - “The New Yorker” 24 Nov '14
 - Now, Thought Leaders, Biz Titans & Gov Officials are learning...



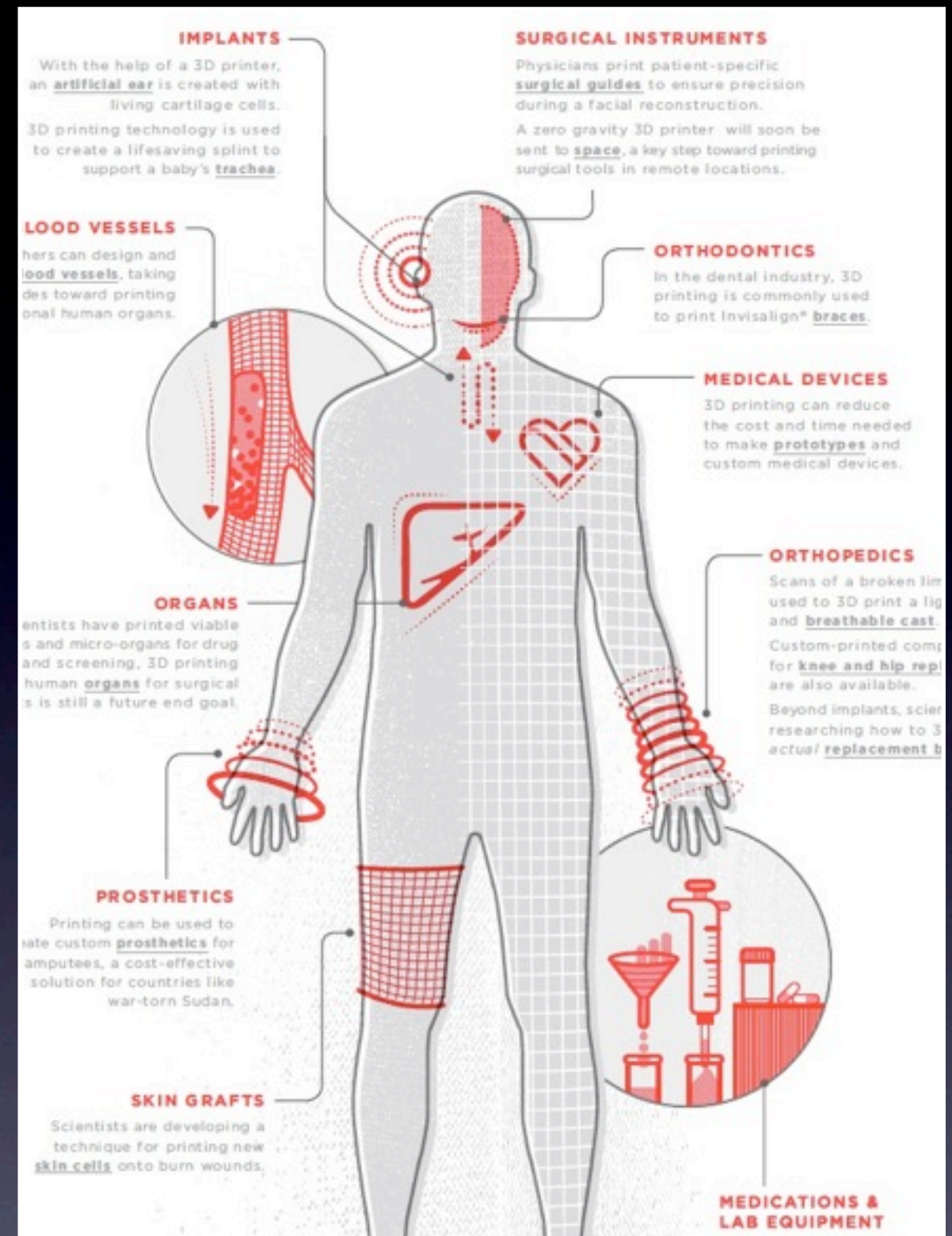
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• The 3DP'd Body:

- Prosthetics & Orthopedics
- Implants & Orthodontics
- Medical Devices
- Medical Modeling
- Skin, Tissues & Organs
- Infographic by Ovaitt Health (Visualizing Healthcare)



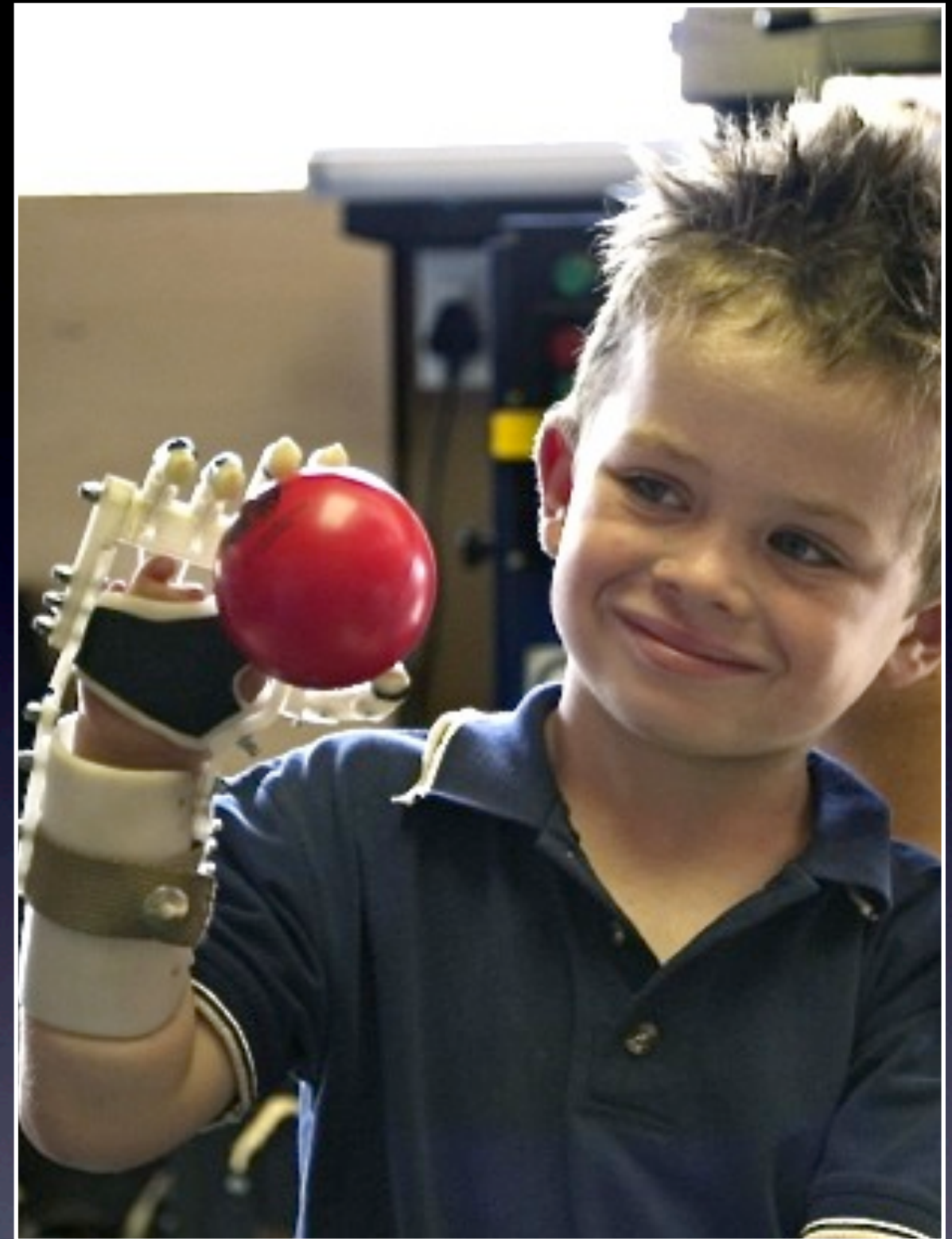
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- **ExoSolutions:**

- **Maker-Made DIY/DIT Robohand**
- **3DP'd Semi-Patient-Specific Grasping Prosthetic-Hand**
- **Mechanical Actuation**
- **On-Demand Iterative Evolution To Match Child Growth**



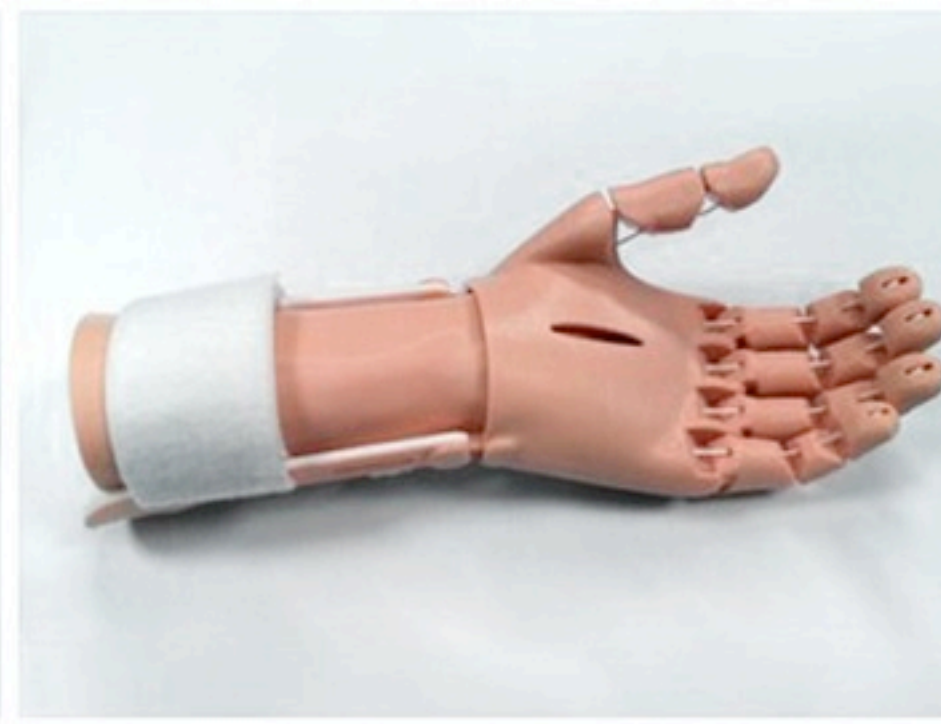
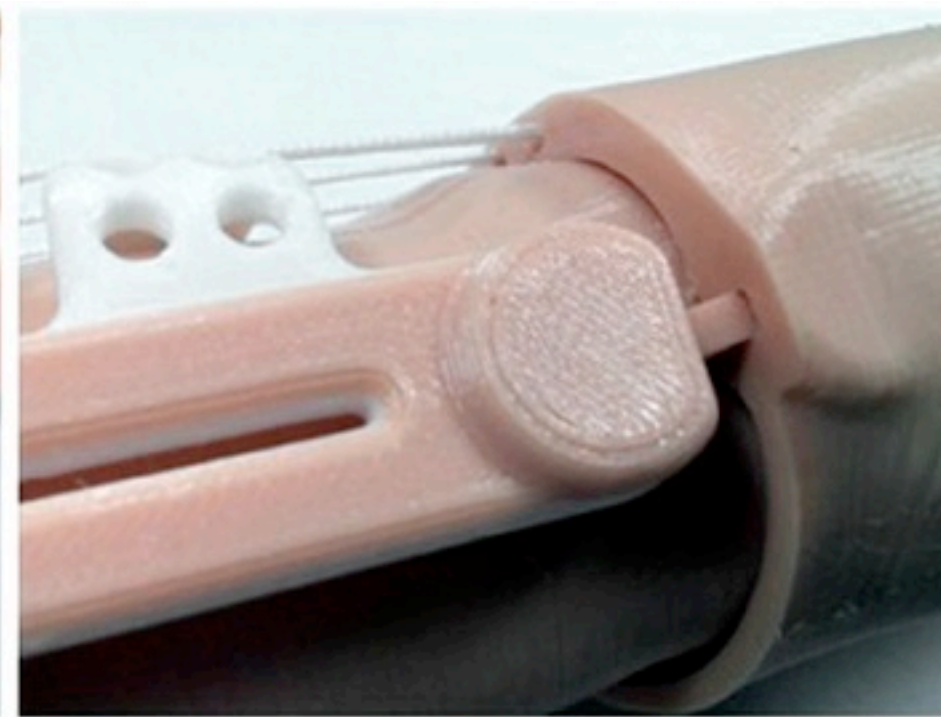
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- **ExoSolutions (Next Gen):**

- UK-Based Gyrobot Ltd. *Flexy Hand*
- Mechanical Design Consulting Company
- Created from recipient arm scans
- Printed w/Skin | FilaFlex elastic filament



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- **Making & Healthcare:**
 - Victor Ty, Radiological Pediatric RN
 - Maimonides Mini Maker Faire
 - MakerNurse.org Affiliate
 - LEGO Pro & 3DP 'Preneur



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- **Maker Faires @ NurseRoots**
 - MFaire Action: 1/3 3DP-Driven
 - 135 Maker Faires Worldwide in 2014
 - 1st Hospital Mini Maker Faire
 - Maimonides Med. Center: BK!
 - Kelly Reilly, Dir of Nursing
 - *Next: a Stealth 3D Printer in the Supply Closet!?!*

Let's Make Health

11a - 3p & 8p - 12 midnight
May 28, 2014
Maimonides Medical Center
Brooklyn, New York

Mini Maker Faire
Free Admission to All!
Time: Wednesday, May 28, 2014
11a-3p & 8p-12 midnight
Location: Maimonides Medical Center
Maimonides Hall
950 49th Street
Brooklyn, NY

Maimonides Medical Center
Little Devices Lab MIT
MakerNURSE



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- **Rapid Bio-Prototyping**
 - **BioBots, BioTech Startup**
 - **Democratizing BioPrinting**
 - **3D BioPrinting with a wide range of Bio Materials**
 - **The Organovo of the East Coast: Disruptive Biz Plan**
 - **Danny Cabrera, Co-Founder, BioBots.io**



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- **DIY/DIT BioLab & HC**
 - Genspace DIYbio Pioneer: BK
 - Synthetic Biology at the Citizen Grassroots
 - *OpenTrons* Liquid-Handling Robot: Make: Mag Award
 - 'Preneur Will Canine at *World Maker Faire* Genspace stand

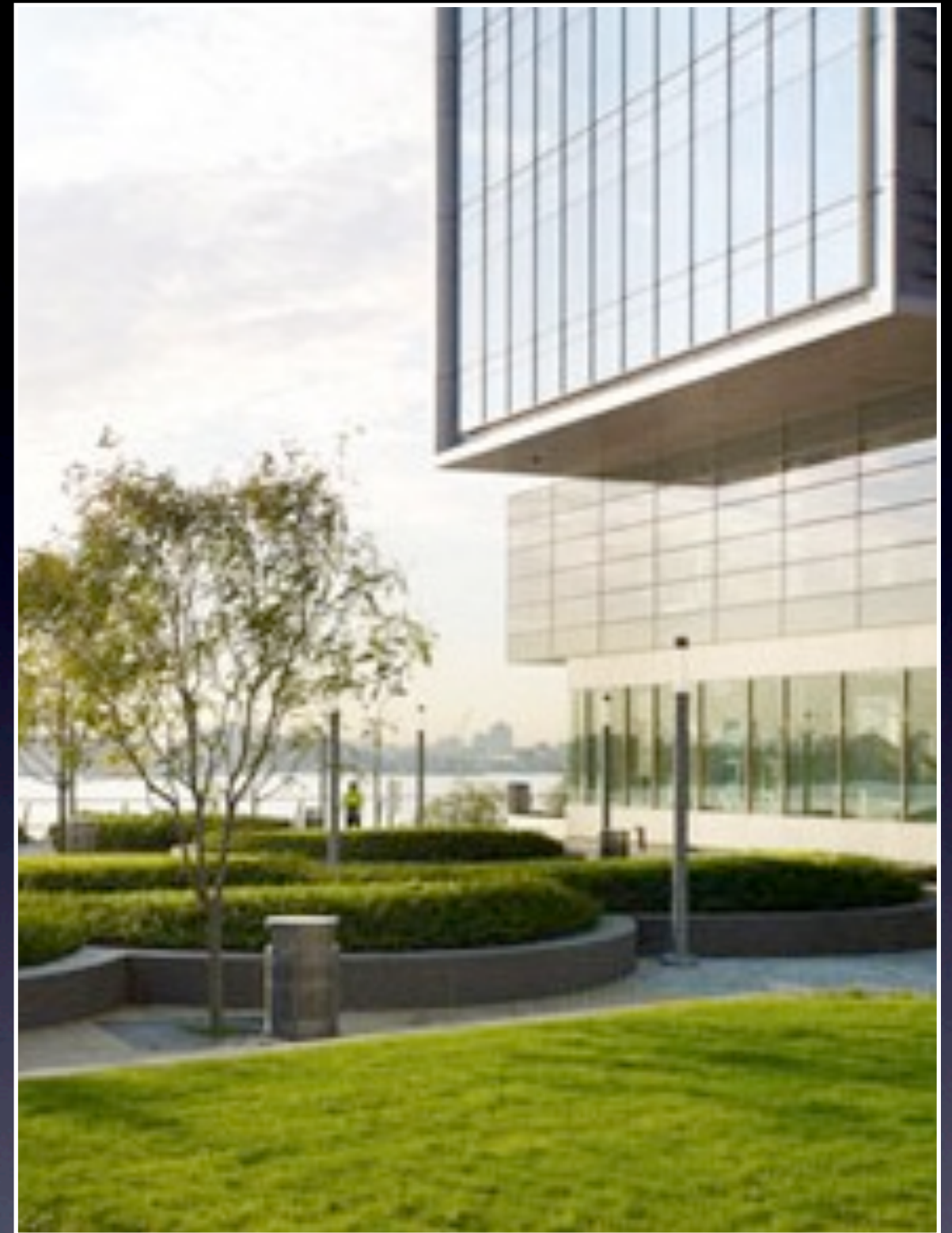


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- **NYCEDC Bioscience Initiative, NYC**
 - Alexandria Ctr for LifeSci
 - Audubon Center (CUNY)
 - *BioBAT*
 - Harlem Biospace
 - ...and 12 More.



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