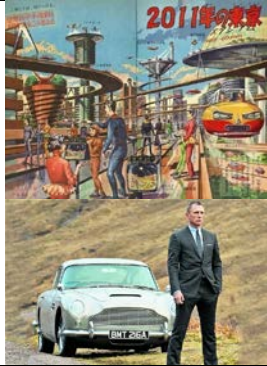



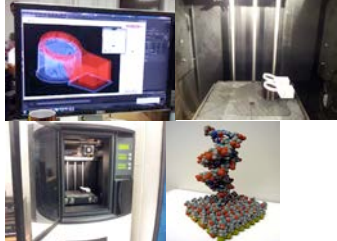

The Idea Maker Evolution


- What do you love most about the story? I love to know how 3D printing is taking us to the future.
- What draws you to the story? What draws me to the story is being able to tell others how a new technology is transforming our world and how this technology is going to have a serious impact on our future.
- What prompted you to want to tell the story? My experiences learning and using a new technology.
- What does the story mean to you? It means that I have been able to witness a revolutionary process.
- What do you most want to communicate through the story? That 3D printing is a disruptive technology that will transform the world and will allow us to reach other planets.
- How do you want your audience to react to your story? Surprise, interested, and eager to learn more about this technology.

The Storyboard



PAGE: 1	DATE: 10.20.2013	PROJECT NAME: The idea maker evolution	AUTHOR: ANDREA ARIAS
		FRAME/EVENT DESCRIPTION <ul style="list-style-type: none"> • Picture from the web • Narrative, sounds, introductory music • Bring the audience to the past 	MEDIA LIST <ul style="list-style-type: none"> • http://www.escapistmagazine.com/news/view/124753-This-is-What-The-1940s-Thought-2011-Would-Look-Like
NARRATION: A few years back I imagined that three-dimensional printing was a thing of a futuristic movie. Even in the 1940s people thought the future would have mobile tables that bring dinner to you, teleconferencing, touch screen computers, space colonization efforts, cars that are capable of flight, and teachers that have been replaced with a slideshow. Even James Bond used a 3D-printed car! The Aston Martin used in the 2012's movie Skyfall was made in a 3D printer.			
		<ul style="list-style-type: none"> • Picture, • Music, narrative • Show different types of printed shoes 	<ul style="list-style-type: none"> • New Balance Launches Its Own 3D-Printed Shoes Hypebeast hypebeast.com - 1280 x 853 - Search by image • Haute render: \$900, custom 3D printed shoes are your next splurge ... www.theverge.com - 640 x 426 - Search by image Page by Adi Robertson
NARRATION: However, the current state of 3D printing is far most advanced and what some people think is impossible is actually already being done. It is a reality that private companies are using 3D printing technology to create hyper-customized track shoes and to build tiny chunks of organs. As 3D printing or additive manufacturing matures it has revolutionized the world by providing opportunities to everybody, at anytime, and everywhere.			

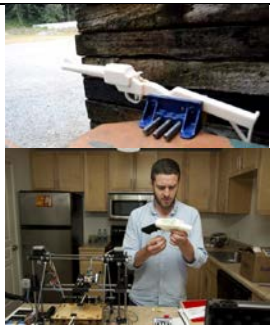

PAGE: 1	DATE:	PROJECT NAME:	AUTHOR:
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	FRAME DESCRIPTION <ul style="list-style-type: none"> • Picture, and video • Music, narrative • Show the 3D printing process 	MEDIA LIST AND DESCRIPTION Video from NSMIT office Text:UPS Store website
<p>NARRATION: I was introduced to the 3D printing technology while working as a Digital Media developer at the college of natural sciences and mathematics. Since then, I have witnessed the 3D printing development and I have been enthused about the benefits and the challenges that this new technology is bringing to the world. "3D Printing is a manufacturing process that uses a digital file to create three-dimensional objects one layer at a time. Our office runs a system that uses ABS plastic and soluble supports to create realistic prototypes and marketing models."</p>		
	<ul style="list-style-type: none"> • Picture of Charles Hulls • Music, narrative • Show the creators and some machines 	<ul style="list-style-type: none"> • Father of 3D Printing Sells Significant Share Holding in 3DS - 3D ... 3dprintingindustry.com - 388 x 389 - Search by image Page by Rachel Park • Recent Posts tagged "invented the 3d printer" 3D Makers www.3dmakers.com - 598 x 405 - Search by image
<p>NARRATION: 3D printing offers many possibilities, but how this technology started? While Hideo Kodama of Nagoya Municipal Industrial Research Institute created the first 3D model in 1981, it was not until Charles Hull's 1986 patent that 3D printing began to develop commercially. The printers were originally large, expensive, and highly limited in what they could produce, however during the last years, several projects and companies have been making efforts to develop affordable 3D printers for home desktop use. Since about 2010, the cost of 3-D printers has decreased dramatically, with machines that used to cost \$20,000 costing less than \$1,000.</p>		


PAGE: 2	DATE:	PROJECT NAME:	AUTHOR:
		FRAME DESCRIPTION	MEDIA LIST AND DESCRIPTION
		<ul style="list-style-type: none"> • Picture of a random mascara applicator • Music, narrative • Show a random applicator and Picture of Charles Hulls • Music, narrative • Show the creators and some machines 	<ul style="list-style-type: none"> • 3 in1 Mascara Applicator Guide Tool Eyelash Comb Makeup - Online ... www.shoppingsquare.com.au - 500 x 500 - Search by image • Formlabs creates Blu-ray based prosumer 3D printer www.gizmag.com - 530 x 297 - Search by image Page by Jason Falconer
<p>NARRATION: As applications of the 3D printing technology expanded and prices dropped, most people have been able to afford 3D printers and are developing their own models without the intervention of third parties. Our office receives requests from many people around the country who have created a new product and who need to use the 3D printing technology to translate their ideas into a reality. One of them was a lady who had created an innovative makeup applicator. As she arrived at our office, I noticed how she carefully placed the flash drive containing her precious 3D model in our hands. She knew this was the ideal opportunity to start her own business. After some hours, the 3D model turned into a real innovative tool and once she was able to hold it in her hands she was excited and proud of seeing her dreams come true.</p>			
		FRAME DESCRIPTION	MEDIA LIST AND DESCRIPTION

	<ul style="list-style-type: none"> Picture Music, narrative Show NASA and astronauts 	<ul style="list-style-type: none"> NASA Approves First 3D Printer for Use in Space Inhabitat ... inhabitat.com - 537 x 300 - Search by image
<p>NARRATION: But additive manufacturing is going beyond our frontiers. Inspiring astronauts are already talking about the possibilities of this technology. Last year, I had the high honor of meeting Astronauts Scott Carpenter and Dr. Franklin Chang-Diaz who traveled to space on several missions. Dr. Franklin Chang-Diaz was the first person I heard talking about using 3D printers to build NASA's spare parts that could take mankind to Mars.</p>		

	<p>FRAME DESCRIPTION</p> <ul style="list-style-type: none"> Pictures Music, narrative Show food, custom prosthetic limbs, tools or entire spacecrafts 	<p>MEDIA LIST AND DESCRIPTION</p> <ul style="list-style-type: none"> Print your own life-size robot for under \$1000 CHEAP 3D PRINTER ... cheap3d-printer.com - 640 x 360 - Search by image
<p>NARRATION: Currently, NASA is planning to use 3D printers to create products that will be needed for deep space travel. Whether "printing" food, custom prosthetic limbs, tools or entire spacecrafts, the 3D printing technology will enable future space missions while benefiting life here on Earth.</p>		
	<ul style="list-style-type: none"> Pictures Music, narrative Show iPod cases and makerbot 	<ul style="list-style-type: none"> 3D-Dienstleistungen - 3dee.at www.3dee.at - 690 x 518 - Search by image
<p>NARRATION: Yet, this new technology is changing again how intellectual property works. Additive manufacturing has the power to boost products customization of open-sourced digital designs, which could bring challenges for copyright holders and law enforcement. My coworker who is studying Computer Sciences is already thinking about printing customized iPhones cases. She already bought a 3-D printer kit called MakerBot, which sells for under \$1,000 to start her own business. As models are sold, tweaked and printed, there could be some copyright infringement that could lead to enforced patents to commercial scale products.</p>		

PAGE: 3	DATE:	PROJECT NAME:	AUTHOR:
		FRAME DESCRIPTION	MEDIA LIST AND DESCRIPTION
		<ul style="list-style-type: none"> Pictures Music, narrative Show gun makers 	<ul style="list-style-type: none"> Bill Regulating 3D Printed Guns Announced In NYC » The Epoch Times www.theepochtimes.com - 676 x 450 - Search by image Page by Joshua Philipp Poor Richard's News - VIDEO: Meet the new 3D-Printed rifle called ... poorrichardsnews.com - 500 x 270 - Search by image
<p>NARRATION: Along with patents issues, Cody Wilson, the 3D-printed gun maker, made a point when he launched a bid to manufacture a 3D-printed pistol. His invention and the invention of the Grizzly, which is a Canadian 3D-printed rifle, have revealed that the law needs to catch up with the technology and needs to regulate the distribution of blueprints on the Internet.</p>			
		<ul style="list-style-type: none"> Pictures Music, narrative Show website that offer 3D printing 	<ul style="list-style-type: none"> http://www.shapeways.com/fashion?i=home-fashion

NARRATION: 3D printing is defining the latest technology revolution and will bring excitement and transformation to our world, as we know it. With this technology you'll be able to find what you need on a website: click the "Print model" button and the printer will start making the object. Additive manufacturing or 3D printing will make the process as simple as possible so everyone can participate in the new future of obtaining goods.

PAGE: 4	DATE:	PROJECT NAME:	AUTHOR:
	FRAME DESCRIPTION		MEDIA LIST AND DESCRIPTION
	<ul style="list-style-type: none"> • Pictures • Music, narrative • Show children using 3D printing 		Mission St. Blog - 3D Printing, Prototyping, Manufacturing, Large Format 3D Printing, Design, Democratizing Creation blog.missionst.com - 3264 x 2448 - Search by image
NARRATION: I am looking forward to the day when my niece will run-on down to our local 3D printing store and create not only a pair of optimal fit shoes but also her tennis racquet and her meals for every game.			

The Script:

The idea maker evolution

A few years back I imagined that three-dimensional printing was a thing of a futuristic movie. Even in the 1940s people thought the future would have mobile tables that bring dinner to you, teleconferencing, touch screen computers, space colonization efforts, cars that are capable of flight, and teachers that have been replaced with a slideshow.

However, the current state of 3D printing is far most advanced and what some people think is impossible is actually already being done. It is a reality that private companies are using 3D printing technology to create hyper-customized track shoes and to build tiny chunks of organs. As 3D printing or additive manufacturing matures it has revolutionized the world by providing opportunities to everybody, at anytime, and everywhere.

I was introduced to the 3D printing technology while working as a Digital Media developer at the college of natural sciences and mathematics. Since then, I have witnessed the 3D printing development and I have been enthused about the benefits and the challenges that this new technology is bringing to the world. "3D Printing is a manufacturing process that uses a digital file to create three-dimensional objects one layer at a time. Our office runs a system that uses ABS plastic and soluble supports to create realistic prototypes and marketing models." (UPS Store website)

3D printing offers many possibilities, but how this technology started? While Hideo Kodama of Nagoya Municipal Industrial Research Institute created the first 3D model in 1981, it was not until Charles Hull's 1986 patent that 3D printing began to develop commercially. The printers were originally large, expensive, and highly limited in what they could produce, however during the last years, several projects and companies have been making efforts to develop affordable 3D printers for home desktop use. Since about 2010, the cost of 3-D printers has decreased dramatically, with machines that used to cost \$20,000 costing less than \$1,000.

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But additive manufacturing is going beyond our frontiers. Inspiring astronauts are already talking about the possibilities of this technology. Last year, I had the high honor of meeting Astronauts Scott Carpenter and Dr. Franklin Chang-Diaz who traveled to space on several missions. Dr. Franklin Chang-Diaz was the first person I heard talking about using 3D printers to build NASA's spare parts that could take mankind to Mars.

Currently, NASA is planning to use 3D printers to create products that will be needed for deep space travel. Whether "printing" food, custom prosthetic limbs, tools or entire spacecrafts, the 3D printing technology will enable future space missions while benefiting life here on Earth.

Yet, this new technology is changing again how intellectual property works. Additive manufacturing has the power to boost products customization of open-sourced digital designs, which could bring challenges for copyright holders and law enforcement. My coworker who is studying Computer Sciences is already thinking about printing customized iPhones cases. She already bought a 3-D printer kit called MakerBot, which sells for under \$1,000 to start her own business. As models are sold, tweaked and printed, there could be some copyright infringement that could lead to enforced patents to commercial scale products.

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1940s

<http://www.escapistmagazine.com/news/view/124753-This-is-What-The-1940s-Thought-2011-Would-Look-Like#mljgyjXGXPrOFpU.99>

The UPS store

<http://www.theupsstore.com/small-business-solutions/Pages/3D-printing.aspx?qclid=CJmEvs6jp7oCFWpk7AodC0sAdA>