

Christopher D. Thompson

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Professional Experience

NextFab, Philadelphia, PA

Technical Supervisor, Fall 2012 – Present

Produced 3D printed, laser-cut, and solvent printed vinyl products for contract clients. Supervised and instructed NextFab members using high tech fabrication equipment. Maintained thirteen different manufacturing machines including Stratasys Dimension SST 1200es, 3DSystems ProJet 3500 HD plus, Zcorp Spectrum z510, Trotec laser engravers, open source 3D printers, and support equipment. Developed and presented Department of Labor funded additive manufacturing course to industry professionals and students. Wrote and taught several new skills classes and workshops. Researched and purchased a fleet of twelve consumer grade 3D printers for education and general use. Solved difficult problems for clients and members with innovative, interdisciplinary solutions.

Eagleapex LLC, Philadelphia, PA

Sole Proprietor, Fall 2009 – Present

Products: **Math Clock**, a clock with math equations as numerals.

meatcards.com, a site for laser-etched beef jerky business cards.

Consulted for local artists by helping them build simple portfolio sites they maintain independently.

Calconix Inc., Ardmore, PA

Graphics Manager, Fall 2007 – Fall 2009

Designed custom graphics for silk-screened products. Prepared jobs for laser-cutting with time-saving manufacturing techniques. Streamlined work flow with Filemaker scripts. Prepared virtual product mock-ups with logos for promotional products. Designed metal, plastic, silk-screened, and laser cut products. Communicated with customers, suppliers, and factories. Maintained company catalog.

Education & Certifications

Lehigh University, Bethlehem, PA **Bachelor of Arts in Design Arts**, May 2004

Areas of focus: Design history and process, furniture, product, and graphic design, Integrated Product Development, studio painting and drawing.

SME **Additive Manufacturing Certification**, June 2014

3DS **Certified SolidWorks Associate**, March 2014

Proficient Skills

Additive manufacturing design, production, and work flow; SolidWorks including parametric CAD; Fusion 360; Rhino including mesh repair; Adobe Illustrator, Photoshop, and InDesign; MS Office; LibreOffice; Filemaker; SketchUp; consumer grade 3D printing; laser cutting; vinyl printing and cutting; Quark; Corel Draw; OpenSCAD; Wordpress; online marketing; woodworking; Mac, PC, & Linux environments

Additional Experience

Hive76, Philadelphia, PA

Board Member, Fall 2011 – Present

Oversee direction of the collaborative technology workspace. Provide Leadership for paying members.

Member, Spring 2009 – Present

Participated in weekly open house and other events. Lead classes on 3D printing. Participate in weekly group activities.

Secretary, Summer 2010 – Fall 2014

Facilitate communications and operations of shared space. Arrange meetings and keep detailed records via public wiki.

American Philosophical Society, Philadelphia PA **Volunteer**, Fall 2011 – Present

Assisted in the maintenance of the art installation: **Greenhouse and Cabinet of Future Fossils**.

Regularly volunteered to staff cultural events.

Awards & Publications

- 2014 There's a 3D printer on the ISS thanks to Made in Space and Mike Chen, Hive76 Blog, November 18
- 2012 Exclusive: Zach Hoeken on leaving MakerBot and his future, Hive76 Blog, July 9
- How to: Innovate in Science with Open Source Technology, Hive76 Blog, July 1
- Acknowledgment, "Rapid casting of patterned vascular networks for perfusable engineered three-dimensional tissues" Jordan S. Miller
- 2010 Toys that made me a maker, Hive76 Blog, November 28
- 2008 Make Magazine, Vol 15: Music, DSLR Time-Lapse Trigger
- 1999 Eagle Scout Award, Boy Scouts of America, Hillsborough, NJ, September

Workshops & Talks

- 2014 3D Printing in the Home, IgnitePhilly, October 23
- 2013 Illustrator to OpenSCAD to 3D printing, Hive76, April 22
- 2012 MendelMax 3D printer build class, NextFab Studio, July 28 & August 11
- Learn parametric CAD for 3D printing, Hive76, August 4
- The Emergence of Hacker as Artist and Artist as Hacker Panel, Hope 9, July 14
- Making an Artist's Website: Using internet based editing platforms, DVC-GBW at the Library Company of Philadelphia, May 12
- 2011 RepRap World Tour, Fab Lab CCBC, June 29-30 & Next Fab August 26-27
- SketchUp for 3D Printing, Hive 76, February 26, April 17, & May, 1
- 2009 WordPress: Blog style websites for artists. PositiveSpace, February 9

Projects

- 2014 Scripted the creation of 600+ custom stickers, one for each of my Twitter followers.
- Collaborated with artists to compose a short message for skytyping project Write Sky
- Assembled twelve foot tall electronic Connect4 game with Hive76 for Philly Tech Week.
- 2013 Designed and built replica Minecraft redstone lamp that is controlled in game.
- 2011 Shot and edited video footage of the Wharton Gamify For the Win Symposium.
- Crafted portable sound systems from vintage suitcases and new electronics.
- Developed a new extrusion component for the RepRap 3D printers.
- Assembled open source 3D printing RepRap.
- 2010 Produced mock iPad from published images, using waterjet cut glass and 3D printed surround.
- 2009 Crafted QR Code Toybee tiles from laser-cut and waterjet-cut linoleum.
- Developed technique for electropolishing intaglio printing plates.
- Designed, typeset and published personal edition of The Narrative of Arthur Gordon Pym.