

Lucian Chapar

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Manufacturing Engineer @ Formlabs, Inc

EDUCATION

Bachelor of Arts Digital Media & Design
UConn School of Fine Arts 2013 – 2017
Focus on 3D Visualization & Design Thinking

Minor Manufacturing Engineering & MGMT
UConn School of Engineering 2013-2017
Focus on Operations and Information Management

PROJECTS

SketchyBot - CNC Etch-A Sketch-Robot Feb 2018 – Apr 2018

SketchyBot is an Open-Source CNC Etch-A-Sketch robot designed to demonstrate automation technology for Makerfaire. See my website for details.

CNC Electronics Control System Oct 2017 – Jan 2018

Created 4-Axis motion controller equip to run LinuxCNC with MESA 7i76 32-bit FPGA /5i25 hardware.

ME3D Full-Body 3D Scanner Jul 2014 – Jul 2015

Created a fully automated person-scale 3D scanner. Features include:

- Motorized pedestal
- 3D Scanner mounted on electronic linear slide
- Fully controllable via PC

EXTRACURRICULARS

UConn 3D Printing Club (3DPC)

Founder & President uconn3dpc.com

The 3D Printing Club is a community Makerspace for students to collaborate on creative design and engineering solutions. During the 4 years I lead the group, we raised over \$100,000 and amassed 300+ members. We also won Editor's Choice and Best in Education at Makerfaire in 2016.

Please visit <http://lucianchapar.com/3d-printing-club/> for more info on this!

Nerf Internet Community Community Organizer

I've been apart of the Nerf Internet Community for nearly 15 years. We're a group of hobbyist Makers that like to take Nerf blasters to a competitive level.

I have authored modification guides, contributed to homemade blaster projects, and helped moderate our online groups.

EXPERIENCE

Manufacturing Engineer Formlabs, Inc.
August 2018 – Present *Somerville, MA*

- Team lead for a next-gen 3D printer NPI
- Focus on Line Management, RCA, DFM/DFA, SOP development, and firefighting
- Spend 25% of year in Shenzhen, China to support NPI activities and MFG Line bring-up
- Manage Laser Module MFG program with Optics team
- Develop calibration and production equipment for next-gen products
- Work to reduce cycle times and labor costs across all manufacturing processes

Technical Content Developer Mastercam
Oct 2016 – Aug 2018 *Tolland, CT*

- Create technical documentation for user-facing areas of Mastercam
- In-house consultant for Additive Mfg software
- Project Manager for the "What's New" video series
- Assisted in localizing multimedia content
- Performed bug testing for QA team

Cofounder & Mechanical Lead SuperHyper
May 2014 – Aug 2018 *Remote/Philadelphia, PA*

A collaborative open hardware and software collective oriented around education and the development of programmatically generated devices.

Creative Technologist Brandeis University
Summer 2016 *Waltham, MA*

- Supported faculty research at the Nobel Prize winning Rosbash Lab
- Developed desktop platform for fruit fly circadian rhythm research
- Created custom fixtures and test apparatuses
- Taught CAD and 3D printing to K-12 & Graduate students

Undergraduate Researcher Institute of Materials Science
Dec 2014 – Oct 2015 *Storrs, CT*

- Worked within PI Anson Ma's Complex Fluids Lab (3D Printing Group)
- Supported research into new polymers for FDM 3D printer filament
- Created fixtures, automated spoolers, and G-Code utilities
- Evaluated the mechanical properties of 3D printed sample parts
- Honed key print process parameters to properly evaluate material mechanical performance