Lucian Chapar

MAKER, DESIGNER, TECHNOLOGIST | LUCIANCHAPAR.COM

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Education

Bachelor's Degree - Digital Media & Design
University of Connecticut, 2013 – 2017

Minor - Manufacturing Engineering & Management
UConn School of Engineering, 2013 – 2017

Skills

3D Software -
SolidWorks, AutoCad, and Mastercam (CAD/CAD)
Cinema 4D + Maya (Surface Modeling/Rendering)

Digital Fabrication -
3D Printing (FDM, SLA, DLP, BJ), Laser Cutting, CNC Milling, 3D Scanning

Other skills and talents of mine -
Design, Fixing (almost) anything,
Training, Leadership, Public Speaking,
Photography/Videography, Marketing,
Project Management, Robotics

Misc Software -
Access, Adobe CS, Excel, Linux, MS Project, PowerPoint

Projects

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

SketchyBot is an Open-Source CNC Etch-A-Sketch™ robot that I designed to introduce automation technology. It is able to rotate the dials of the Etch-A-Sketch™ to plot out any given path.

CNC Electronics Control System
Oct 2017 – Jan 2018

• Created 4-axis CNC electronics control system based around the MESA 7i76 32-bit FPGA board
• Fully Open Source + For use with LinuxCNC

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
• Implemented Java program to control Arduino from laptop over serial port

Courses

Introduction to Manufacturing Systems
Engineering for Additive Manufacturing Processess
Principles of Engineering Management
Principles of Manufacturing Automation
Production Engineering

Experience

Technical Content Developer @ CNC Software, Inc.
Oct 2016 – Present Tolland, CT

• Create technical documentation for user-facing areas of Mastercam.
• Project Manager for the What's New video series.
• Assists in localizing multimedia content.

Co-Founder and Machine Design Engineer @ SuperHyper
May 2014 - Present Philadelphia, PA

A collaborative open hardware and software collective oriented around education and the development of programmatically generated devices. My responsibilities include:
• Component and Assembly Design
• CAD Lead (SOLIDWORKS 2018)
• PDM Maintenance / Version Control
• Motion Studies, Ergonomic Eval., Usability Testing
http://www.superhyper.xyz/

Founder and President @ 3D Printing Club (3DPC)
Aug 2013 – May 2017
Engineering 2 Building Room 303, 192 Auditorium Rd Mansfield, CT 06269

• Taught CAD, machine repair, and design principles at weekly general body meetings.
• Led Hackathon team to victory in several machine design competitions.
• Managed funding applications and inventory.
• Won Editor's Choice and Best in Education at Makerfaire.

3D Imaging Specialist @ Brandeis University
May 2016 – Aug 2016
Brandeis University Makerlab, Waltham, MA

• Supported Faculty research at the Nobel Prize winning Rosbash Lab.
• Worked as a mechanical engineer to develop desktop machine for circadian rhythm research.
• Created lab fixtures and assemblies based on research demands.

Undergraduate Researcher @ UConn Research
Dec 2014 – Oct 2015
Institute of Materials Science, UConn

• Worked at Complex Fluids Lab, under PI Anson Ma.
• Member of the 3D Printing Team.
• Aided in the development of 3D printing materials, including filaments containing carbon nanotubes, and piezoelectric fluoropolymers.
• Created 3D visualizations for grant applications.