

Jason Chen

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510 Parker St, # 4387, Boston, MA, 02115. [GitHub](#), [Engineering Portfolio](#), [Art Portfolio and Website](#)

Education ▶ ▶ ▶

Northeastern University, Boston, MA May 2021

Bachelor of Science in Electrical Engineering, Minor in Art, GPA 3.98/4 (Honors program)

Coursework: Circuits and Signals, Embedded Design, Physics 2, Calculus 3, Fundamentals of Networks, Differential Equations/Linear Algebra, 2D Fundamentals, Business of Games

Activities: AIAA, VR/AR Club, Flute Section Leader - NU Pep Band, NU Game Design Club, NU Mural Club, NUPiC (Photography Club), NU Sound, Animation Club, NU Knits

North Andover High School, North Andover, MA. GPA 4.5/4 (salutatorian) June 2017

Activities: Vex Robotics, Drum Major - Marching Band, Honors Band. Honors Chorus, Winter Guard, Science Team, Math team, Interact Club, Drama Guild

Skills ▶ ▶ ▶

Technical: Arduino, basic circuit design, basic circuit testing, PCB design, soldering, digital multimeters, CAD, oscilloscopes, laser cutting

Programming: C++, Python, MATLAB, HTML, CSS, JavaScript, Processing

Software: Solidworks, Onshape, Fusion 360, OpenSCAD, Unity Engine, OrCAD/PSpice, Microsoft Word, Excel, Blender, Adobe Suite, Ultimaker, Rostock Printer, and other 3D printer software

Languages: Fluent in Mandarin, Conversant in Spanish

Other: 2D Art and Design, Digital Art and Design, UI/UX Design, Photography and Photo Editing, Film Editing, Woodworking and Machine Shop skills

Engineering Projects ▶ ▶ ▶

Plasma Speaker Driver April 2018

- Built a driver for a flyback transformer on a PCB board from a schematic
- Fixed errors in the schematic and adjusted circuit to components on hand
- Tested the effects of changing component values on the output
- Drove a speaker with the board from an audio input and power supply

FPV Quadcopter May 2017

- Selected compatible parts to make an FPV racing drone
- Analyzed cost and researched build tradeoffs
- Soldered, calibrated, connected, and flew the copter
- Updated quadcopter with other parts to tweak flying experience

Work Experience ▶ ▶ ▶

Makeit Labs, Nashua, NH December 2016 - Present

Teacher, Member

- Teaches woodlathe classes for the space
- Experiments with electronics, machining and woodwork
- Commended for excellence in woodworking and helping with projects around the space
- Praised for commitment in aiding a much-needed reorganization of the clean space and wood shop

FIRST Lego League, North Andover, MA September 2010 - August 2017

Teacher, Assistant

- Mentored students from 6-12 years old in building competition robots
- Kept students on task while creating fun projects to inspire learning
- Taught block-based programming to students and how to integrate sensors and automation into builds
- Facilitated error alleviation in programming and automation sequences