

Jason Chen

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[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
<ul style="list-style-type: none">Built a driver for a flyback transformer on a PCB board from a schematicFixed errors in the schematic and adjusted circuit to components on handTested the effects of changing component values on the outputDrove a speaker with the board from an audio input and power supply	
FPV Quadcopter	May 2017
<ul style="list-style-type: none">Selected compatible parts to make an FPV racing droneAnalyzed cost and researched build tradeoffsSoldered, calibrated, connected, and flew the copterUpdated quadcopter with other parts to tweak flying experience	

Work Experience ▶ ▶ ▶

Makeit Labs , Nashua, NH	December 2016 - Present
Teacher, Member	
<ul style="list-style-type: none">Teaches woodlathe classes for the spaceExperiments with electronics, machining and woodworkCommended for excellence in woodworking and helping with projects around the spacePraised 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	
<ul style="list-style-type: none">Mentored students from 6-12 years old in building competition robotsKept students on task while creating fun projects to inspire learningTaught block-based programming to students and how to integrate sensors and automation into buildsFacilitated error alleviation in programming and automation sequences	