

Joaquin Arias

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Skills

3D/4D Digital Modeling and Visualization

Photogrammetry

(Image Learning, Analysis, Processing, Editing, and Exporting)

Rhino/CAD

(Creation and Rendering)

Blender

(Creation and Rendering)

Onshape

(Creation)

4D Digital Media Ideation, Production, and Editing (Video and Sound)

Adobe Premiere

(Editing and Creation)

Adobe After Effects

(Editing and Creation/Effects)

Audacity

(Audio Manipulation and Creation)

FL Studio

(Music Production, Manipulation, Composition, Editing)

Brand and Graphic Design and Production

Adobe Photoshop, Lightroom, Illustrator

(Logo, Poster, Photo Editing/Manipulation)

Sublimation Dye Printing

(On Various Clothing and Fabric Surfaces)

Vinyl Cutters

(From Designing to Heat-press/Sticker, Wide Range of Cutters Like Cricut)

Designing Digital Layouts

(For Large Prints, Articles, Vision Board, Clothing Design)

Figma UX/UI

(App Ideation and Creation)

Sewing and Stitching

(Machine and Hand)

3D Digital and Analog Prototyping and Fabrication

Filament and Resin Printing

(From object creation to final print with experience in troubleshooting)

3D Printing Slicers

(Cura, Prusa, Creality, Ultimaker, Makerbot)

Wood-shop Work & Creation

(Tools, Measuring, and Blue-printing for Object Ideas with Measurements)

Soldering

(Small Electronic Components)

Hardware Electronics

(Configure and Assembly)

Power Tools

(Safety and Use)

CNC & Laser Cutting Layout

(Layout design and use for CNC/Laser Cutting with Woods/Acrylic)

Epoxy/Resin

(Free Form Air, Pouring, and Mixing)

Work Experience

Eli Whitney Museum & Workshop / Hamden, CT

Nov 2021 - Present, Senior Apprentice & Staff

The Eli Whitney Museum and Workshop was established in 1796 as a not-for-profit historic and educational organization. The Museum preserves the site on which Whitney constructed the first American factory in 1798. The Workshop is an experimental learning workshop for students, teachers, and families. Workshop apprentices are selected through a rigorous application process, receive training from designers, artisans, and artists, and receive annual performance evaluations. Apprentices are paid to create, fabricate, and produce designs and projects for classes, and support Museum programming and outreach.

Neoset Designs - Robotic Art Fabrication / Woodbridge, CT

July 2022 - Present, Employee

In the studio, I work as an apprentice under the fabricator for half the time and working independently for the other half. In the studio, we fabricate large scale 3D art sculptures (up to 8 feet) working with different metals and stones. Using robots, we program them to mill and create using FDM-like printing with bronze. I use photogrammetry and CAD based programs to create 3D models of real-life sculptures, and we are able to scale up the pieces of work to fabricate. I have also designed and fabricated my own pieces to aid in the process of photogrammetry. Aside from the list above, I do general work (cleaning, polishing, mixing, etc.) for the studio.

Education

Amity Regional High School / Woodbridge, CT

Aug 2021 - June 2025

Educational Center for the Arts / New Haven, CT

Aug 2022 - June 2025

ACES Educational Center for the Arts (ECA) offers high school students the opportunity to study fine arts with practicing professional artists, fostering lifelong curiosity and a passion for the arts. Students from over 25 school districts dedicate 12 hours a week to creative writing, dance, music, theater, and visual arts. The ECA Visual Arts Department provides a studio environment where students engage with professional artists across over 36 courses annually. Offerings include sculpture, printmaking, video, photography (darkroom and digital), 4D media, animation, 3D design, digital fabrication, VR, installation, painting, drawing, and interdisciplinary studies. Classes emphasize creative exchange through critiques, lectures, gallery visits, guest artists, and community engagement. Students develop visual communication, critical thinking, technical skills, and personal artistic expression.

Drexel University / Philadelphia, PA

Sep 2025 - June 2029 (Anticipated graduation)

Awards & Certificates

Wharton Global Youth Program

Product Design Academy, July 27, 2024

Royal Conservatory of Music Certificate Program

Level 1 Piano - First Class Honors

Level 2 Piano - First Class Honors with Distinction

Level 3 Piano - First Class Honors

National Hispanic Recognition Certificate (College Board)

For Outstanding Academic Achievement, August 1, 2024

National Society of High School Scholars Certificate

Academic Achievement and Recognition, 2024

Excellence in Digital Media

Recognition of Outstanding Performance and Achievement - Amity Regional High School, 2022

Piano Festival Performance Award

Neighborhood Music School, 2018

Neighborhood Music School, 2019