

# NICOLAS J. GARCIA

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## PROFESSIONAL EXPERIENCE

### TAUBMAN COLLEGE OF ARCHITECTURE + URBAN PLANNING

Graduate Research Assistant - University of Michigan

Ann Arbor, MI

May 2021 - August 2021

- Work was done as a continuation of the *Topology+ Timber* thesis section taught by Tsz Yan Ng, Wes McGee, and the SOM Chicago Team. The research was funded by SOM and the final outdoor learning space/pavilion will be featured in the 2021 Chicago Architecture Biennial.
- Part of a 3 student team selected to finalize the pavilion design in collaboration with SOM.
- Designed and fabricated prototypes to test assembly, fabrication, milling operations, joinery, etc.
- Will be responsible for generating GCode for the final 5-Axis CNC milled timber members in MasterCAM 2020. We will then fabricate and machine all required timber pavilion members in Ann Arbor for final assembly in Chicago.
- Will work with SOM team to generate and finalize required permit drawings for the city of Chicago.

### JON ANDERSON ARCHITECTURE

Architectural Intern / Job Captain / Project Manager

Albuquerque, NM

September 2016 - July 2019

- Co-lead programming of several new buildings in design. Met with clients to discuss program and needs for new facilities.
- Participated in the design of several residential, commercial, and education projects.
- Prepared and coordinated the drawing of Construction Documents within our office, and with consultants, for residential, commercial, and education projects.
- Coordinated Construction Administration with General Contractor / Subcontractors for both residential and education projects.
- In charge of graphics and renderings used for both award submissions as well as RFP's.
- Assisted in reviewing shop drawings, answering RFI's, and issuing ASI's to General Contractors.

### CENTER FOR RESEARCH IN ADVANCED FABRICATION TECHNOLOGIES [CRAF+T]

Research Fellow - University of New Mexico

May 2015 - August 2016

- Worked as part of a 8 person team designing and fabricating a 2500 sq. ft. exhibition titled, "The Weatherlab" for the Anderson-Abruzzo International Balloon Museum.
- Worked as part of the 3 person team in charge of designing 4 large, digitally fabricated installation pieces for the exhibit.
- Worked with clients, museum administration, and city officials to finalize design, secure funding, and research other successful facilities.
- Team was responsible for the planning, design, construction documents, shop drawings, prototyping, and fabrication of the exhibit pieces.
- Exhibit opened in September 2017 and will remain as part of the museum for 10-15 years.

### COUTY DESIGN BUILD

Rendering and Fabrication Consultant

Albuquerque, NM

February 2016 - May 2016

- Created a series of design renderings done in association with Gensler | Los Angeles for Hotel Chaco; a new Resort Hotel under construction in Albuquerque.
- Assisted in the design of a series of exterior trellis for Hotel Chaco.
- Helped design fabrication details for miscellaneous fabrication work

### SA+P FABRICATION LAB

Fabrications Assistant - University of New Mexico

Albuquerque, NM

September 2014 - May 2016

- Worked to ensure the safety and well-being of the students in the lab at all time.
- Taught all general shop safety trainings and a variety of MIG Welding workshops.
- General lab maintenance and duties such as machine repairs, shop upkeep, and general construction projects throughout the School of Architecture.
- Collaborated with the Center for Research in Advanced Fabrications Technology

### PHYSICS DIVISON 23 - LOS ALAMOS NATIONAL LABORATORY

Undergraduate Student Researcher

Los Alamos, NM

May - August 2012, 2013, 2014

For work samples please visit [nicolasjgarcia.com](http://nicolasjgarcia.com)

## EDUCATION

### MASTER OF ARCHITECTURE

Taubman College of Architecture and Urban Planning  
University of Michigan  
Summa Cum Laude - May 2021

### BACHELOR OF ARTS IN ARCHITECTURE

School of Architecture and Planning  
University of New Mexico  
Magna Cum Laude - July 2016

## SOFTWARE SKILLS

Adobe Creative Cloud [Acrobat, Illustrator, InDesign, Photoshop, Premiere Pro] | Autodesk [AutoCAD 2018, Maya 2015, Revit 2019] | Cura Slicer | Flow Path | Google Earth | Kerkythea Rendering | MasterCAM 2020 | Microsoft Office Suite [Excel, PowerPoint, Word] | OBS Studio | Rhinoceros 7 + Grasshopper | RhinoCAM | SketchUp Pro 2018 | SolidWorks 2015 | SuperMatterTools [SMT] | V-Ray 3 Rendering | ZBrush | Zoom

## FABRICATION SKILLS

3 & 5 Axis CNC Milling | CNC Plasma Cutting | FDM 3D Printing [PLA, PETG + ABS] | General Metal Working | General Wood Working | Glass Fiber Reinforced Concrete [GRFC] Application/Casting | GMAW/MIG Welding | KUKA KR6/KR120 Operation | Laser Cutting | Traditional Wood Joinery | Waterjet Operation | Vacuum Forming

## ACHIEVEMENTS

4736 AXP Hours Completed [all categories]

Espanola Valley High School  
Class of 2012 Valedictorian

Los Alamos National Laboratory  
Student Symposium 2013 Runner Up

Los Alamos National Laboratory  
Student Symposium 2012 Winner

Taubman College Student Show  
Nominated - 2021

Tucker Scholarship in Architecture for a  
Socially Responsible Undergrad - 2015

UNM Dean's List 2012 - 2016

## ORGANIZATIONS

AMERICAN INSTITUTE OF ARCHITECTURE STUDENTS  
University of New Mexico  
Vice President [May 2015 - May 2016]  
Director of Installation Committee [May 2015 - May 2016]  
Member [May 2014 - May 2015]

TAU SIGMA DELTA - GAMMA LAMBDA CHAPTER  
University of New Mexico  
Member [Initiated March 2015]