

NATHAN KRIKAWA

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OBJECTIVE

To obtain a full-time position after graduating in May 2025 that will provide engineering work experience utilizing and developing analytical, technical, and design skills.

EDUCATION

Northern Arizona University, Flagstaff, AZ May 2025
Bachelor of Science in Multidisciplinary Engineering – Design Emphasis
GPA: 3.73 Dean's List: Fall 2021, Fall 2022, Spring 2023, Fall 2023

Salpointe Catholic High School, Tucson, AZ 2017–2021
STEM Program. Distinguished Scholar Honor Roll. “Outstanding Junior of the Year” in Engineering.

TECHNICAL SKILLS & TOOLS

Rhinoceros 3D/Grasshopper	Ultimaker Cura	SolidWorks	Blender	Unreal Engine
CNC/Lathe/Vertical Mill	Microsoft Office	Adobe Creative Suite	MATLAB	

3D CONCRETE PRINTING RESEARCH & PRESENTATIONS

Dymond, B.Z., Krikawa, N. (2024). “Optimization of a 3D Concrete Printer to Create Structural and Artistic Objects.” *ASCE-ASHE State Conference*, Oct. 24, Phoenix, AZ.

Structural Support Systems for 3D Concrete Printing NAU Jean Schuler Grant Sep 2024-May 2025

- Research and development of structural support systems for implementation while 3D printing concrete to expand the possibilities of NAU’s concrete 3D printer. Developed G-code with Rhino’s Grasshopper application to create optimal pathing for supported structures.

Krikawa, N., Dymond, B.Z. (2024). “Optimization of a 3D Concrete Printer to Create Structural and Artistic Objects.” *NAU Undergraduate Symposium*, Apr. 26, Flagstaff, AZ.

Optimization of Concrete 3D Printer NAU Interns-to-Scholars Program Spring 2024

- Installed and operated NAU’s concrete 3D printer, optimizing the printing process and parameters. Modeled, sliced, and printed NAU’s first concrete 3D prints.

ACADEMIC PROJECTS & COURSEWORK

ME 476/486: 3D Printing in Metal Spring 2024-Fall 2025

- Installed a Concept Laser Mlab cusing R metal SLM printer in NAU’s IDEA Lab. Going to use FEA and topology optimization to demonstrate the capabilities of metal additive manufacturing as compared to subtractive manufacturing in a final complex print.

ME 386W: Engineering Design: The Method Spring 2024

- Designed a delivery drone with a team, involving technical, cost, and ethical analyses. Fully modeled and animated a demonstration of the drone using Blender and Solidworks.

ART 274: New Media: 2D/3D Digital Fabrication Spring 2024

- Designed a 3D dwarf bust in Blender, sliced it in Cura, and printed it in the Maker lab in the Cline library.

ART 174: New Media Foundations Spring 2023

- Completed animations and videos through the use of Unreal Engine, Photoshop, and Premiere Pro.

Coursework:

Introduction to Engineering Design | Programming for Engineering and Science | Computer Aided Design | Innovation and Design Thinking | Materials Science | Applied Mechanics Dynamics | Applied Mechanics Statics | Mechanics of Materials | Structural Analysis | Engineering Analysis | Machine Design 1 | Engineering Design: The Process | Engineering Design: The Method | New Media: 2D/3D Digital Fabrication

WORK EXPERIENCE

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| • <i>Undergraduate Researcher</i> , 3D Concrete Printing, NAU | Aug 2024–May 2025 |
| • <i>Delivery Assistant</i> , <i>Legacy Beverage</i> , Flagstaff | Jun 2024–Aug 2024 |
| • <i>Landscaping Laborer</i> , Morning Dew Landscaping, Flagstaff | May 2023–Aug 2023 |
| • <i>Graphic Designer</i> , Krikawa Jewelry Designs, Inc, Tucson, AZ | Jul 2020–Dec 2020 |
| • <i>Data Entry Clerk</i> , Krikawa Jewelry Designs, Inc, Tucson, AZ | Jan 2020–Jul 2020 |