SHAYNA CARTER

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EDUCATION

THE COLLEGE OF NEW JERSEY

Bachelor of Science in Engineering Science

Spring 2026

Multiple-Time Dean's List Recipient

AFFILIATIONS

AMERICAN SOCIETY OF MECHANICAL ENGINEERS

Member | 2021-2025

YOUNG ENTREPRENEURS ACADEMY

Member | 2024-2025

DR. ERNEL SIMPSON INNOVATION AWARD

Recipient | 2025

COURSES

DIGITAL FABRICATION I & II

- Hands-on experience with CNC
- 3D printing for rapid prototyping
- Laser cutting and UV printing
- Use of woodworking tools
- Cross-platform fabrication for prototyping and manufacturing

SKILLS

- 3D Modeling & Printing
- SolidWorks
- CNC Machining
- Laser Cutting
- MATLAB
- C++

WORK & RESEARCH EXPERIENCE

ENGINEERING INTERN | John Kuiphoff (2025-2026)

- Designed and developed 3D models using CAD software for prototyping
- Prepared and manufactured components using digital fabrication
- Designed, iterated, and tested prototypes to evaluate and refine new products

STUDENT RESEARCHER | The College of New Jersey (2023)

- Worked under a PhD-certified art professor studying ancient Roman coins
- Evaluated several research hypotheses alongside a team of honors researchers
- Analyzed and archived several hundred coins into an archaeology database
- Presented findings at the TCNJ Celebration of Student Achievements

TECHNICAL PROJECTS

3D CNC RELIEF | Class: Digital Fabrication II

- Developed 2D images into depth maps to be converted into 3D STL files
- Strengthened skills in digital fabrication, CAD software, and CNC operation
- Created tool-ready files for CNC machining, ensuring accurate material removal and detail preservation

ANGLO-SAXON LYRE RECONSTRUCTION | Class: Digital Fabrication I

- Created a 3D CAD model of an Anglo-Saxon lyre based on archaeological research
- Operated CNC machining to cut major components and traditional woodworking tools for finishing and assembly
- Designed, 3D modeled, and 3D printed custom tuning pegs and the bridge to achieve functional playability

MYCELIUM BRICK FABRICATOR | Class: Engineering Senior Project

- Engineered a machine that automates substrate mixing, inoculation, and incubation, ensuring consistent growth and uniform density of mycelium bricks
- Applied mechanical engineering and digital fabrication skills to develop molds and machine components
- Developed eco-friendly mycelium-based bricks as an alternative to concrete, emphasizing sustainability and circular economy principles