

STEVEN A. GIRALDO

s.giraldo@my.ccsu.edu • [linkedin.com/in/steven-a-giraldo/](https://www.linkedin.com/in/steven-a-giraldo/)

EDUCATION



Central Connecticut State University

Bachelors of Science, Mechanical Engineering | GPA: 3.38

New Britain, CT

Expected May 2028

Relevant Coursework: Statics, Manufacturing Engineering Processes, Engineering Computation (MATLAB), Siemens NX (CAD & Assemblies), Calculus I-III, Physics I & II (Calculus-Based)

TECHNICAL SKILLS

CAD & Design: Siemens NX (parametric modeling, assemblies, interference analysis, exploded views, detail drawings)

Programming & Analysis: MATLAB; loops (for/while), conditionals, numerical methods, matrix operations, plotting & Excel (curve fitting, regression)

Manufacturing: Lathe, vertical mill, surface grinder, polishing equipment

Metrology: Micrometers, calipers, tolerance control to ± 0.001 in.

Languages: English & Spanish (Native)

PROJECTS & LAB EXPERIENCE

Precision Machining & Dimensional Control:

Operated lathe, mill, and surface grinder to fabricate components; Created a steel die, diameter gauge, and multiple step gauge, verifying dimensions using micrometers; Improved surface finish and maintained ± 0.001 in tolerance through controlled machining sequencing.

Parametric Tricycle Assembly:

Designed fully constrained 3D parametric tricycle assembly in Siemens NX; evaluated fit, interference, and mobility; produced exploded assembly drawings with parts lists and annotations. Applied design intent principles to ensure components remained fully parametric and easily modifiable.

WORK EXPERIENCE

Intramural Official

1/2025 - Present

C.J. Huang Recreation Center - New Britain, CT

- Applied structured rule enforcement and rapid decision-making in dynamic environments; Maintained operational accuracy in timing and scoring systems under high-pressure conditions.

Landscaping & Pool System Technician

3/2020 - 8/2024

Independent Contractor - Fairfield County, CT

- Operated mechanical equipment; performed system-level troubleshooting on residential filtration systems; communicated technical solutions to clients.

EXTRA CURRICULARS & ACHIEVEMENTS

- Norwalk Board of Education Certificate of Excellence
- Samsung Solve for Tomorrow Semi-Finalist
- Academy Soccer Player [GWSA] (9 years)
- Person-to-Person Volunteer Group
- Space Exploration Architect and Research Club