

Caroline Gillum

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EDUCATION

Villanova University - College of Engineering, Villanova, PA <i>Bachelor of Science in Mechanical Engineering, Minor in Engineering Entrepreneurship</i> GPA: 3.96/4.00 Dean's List Courses: Thermodynamics, Mechanics of Materials, Statics, Dynamic Systems, SolidWorks, MATLAB, Engineering Entrepreneurship	May 2028
New Trier High School , Winnetka, IL GPA: 3.95/4.00 Honor Roll, ACT: 35/36, AP Scholar with Distinction Award, Illinois State Scholar	June 2024

ENGINEERING EXPERIENCE

Newell Brands Quality Engineering Internship , Atlanta, GA <i>Graco Baby Car Seat Project</i> - Identified noise-related concerns from customer complaints and internal quality data - Designed and conducted testing scenarios that replicated real-world consumer complaints - Developed an acceptable noise and vibration specification aligned with safety standards and user expectations	Summer 2026
Engineering Entrepreneurship Minor Project , Villanova University <i>EcoSight AR Glasses</i> - Designed and prototyped "EcoSight", an AR-based concept for smart glasses to enhance ecotourism through real-time translation, navigation, plant/animal identification, and safety features - Spent 3 weeks in Panama, partnered with a rural coffee farm to conduct stakeholder interviews to inform product features - Created and presented a business model and prototype tailored to Panamanian ecotourism ventures to local partners integrating customer feedback and technical feasibility insights	Summer 2025
Engineering Interdisciplinary Project , Villanova University <i>Wearable RFID Design Project</i> - Designed "Catpass", a wearable college dorm key to address challenges of misplaced University IDs - Obtained experience in team setting with project management, research, development, prototyping, testing SolidWorks and AutoCAD software, and analytical problem solving - Organized project from research, design, and through final design presentation to faculty and industry professionals - Product nominated and awarded 1st place in Villanova's College of Engineering Freshman Engineering Showcase	Fall 2024
Go Baby Go , New Trier High School <i>Team Captain (Senior Year)</i> - Working as a 10-person student team, customized seating position, steering mechanism, and power controls of Power Wheel ride-on electric cars for children with Spina Bifida to provide primary mobility equipment in place of an expensive wheelchair that may be out of financial reach for the family - Developed battery cars to enable children to experience the social, physical and developmental benefits of mobility at home and on the playground - Collaborated with University of Delaware, Illinois Spina Bifida Association, and Chicago based Shirley Ryan Ability Lab	Spring 2022-2023

SKILLS

Software: SolidWorks **Programming Languages:** MatLAB, R Studio

LEADERSHIP & ACTIVITIES

Special Olympics , <i>Volunteer Coordinator</i> Villanova University Organized and planned competition event logistics and volunteer allocation for Fall Fest Special Olympics Weekend
Society of Women Engineers , <i>Member</i> Villanova University
Villanova Club Running , <i>Member</i> Villanova University

OTHER WORK EXPERIENCE

Wild Child Toy Store , <i>Sales Associate</i> , Glencoe, IL - Responsible for sales, pricing, financial transactions, and using product knowledge to deliver exceptional customer service - Trusted by owners to co-manage the store when they were out of the country for a month	June 2023 – 2025
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