

ANNEMARIE HORN

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EDUCATION

Duke University , Durham, NC	Aug 2025 – Dec 2026
<i>Master of Engineering</i> , Mechanical Engineering	GPA: 3.93/4.00
<ul style="list-style-type: none">Innovation & Entrepreneurship	
Dartmouth College , Hanover, NH	Sep 2018 – Jun 2022
<i>Bachelor of Arts</i> , Engineering Sciences Modified with Economics	GPA: 3.51/4.00
<ul style="list-style-type: none">Phillip R. Jackson Engineering Award; Division I Varsity Volleyball	

EXPERIENCE

Quadpack , Barcelona, Spain	Feb 2025 – May 2025
<i>R&D Product Engineering Intern</i>	
<ul style="list-style-type: none">CAD modeled two cosmetic packaging products in SolidWorks, incorporating DFM principles for tight-tolerance injection molding with draft angles, wall thickness, and parting linesLed process of standardizing 470+ supplier-facing 2D Technical Drawings, coordinating with 10+ suppliers to ensure manufacturability and accuracy of dimensions, tolerance stack-ups, bills of materials, and templatesCollaborated in cross-functional product innovation sessions to resolve CAD errors for a textured applicator, enabling the successful launch of the Serenity Tube	
SpaceFlow , Los Angeles, CA	Aug 2024 – Oct 2024
<i>Product Marketing Intern</i>	
<ul style="list-style-type: none">Performed functional validation of core application workflows, verifying end-to-end system performance including live self-guided video tours, scheduling of tour showings, and payment processingDeveloped company's LinkedIn presence through communicating platform's value proposition of streamlining the rental journey with next-generation technology	
ABI Research , New York, NY	Sep 2023 – Jan 2024
<i>Technology Research Analyst</i>	
<ul style="list-style-type: none">Created monthly publications on technology market research, analyzing trends in ultra-wideband wireless communication for subscribed industry professionalsSynthesized insights from 15+ expert interviews, online research, and historical data to forecast emerging technology developments through 2028	

PROJECTS

Cystoscope, Inhaler Spacer, & Annuloplasty Ring – Advanced Design & Manufacturing, Duke	Sep 2025 – Dec 2025
<ul style="list-style-type: none">Designed medical device products using human-centered design principles, 3D CAD, and DFM constraints considering ergonomics and manufacturability	
Tendon-Driven Robot – Capstone Team Project, Duke	Sep 2025 – Dec 2025
<ul style="list-style-type: none">Developed SolidWorks CAD models for 3D-printed mechanical components, incorporating tolerances, cable routing, and integrated electronics housing	
Soap Dispenser – Introduction to Rheology, Duke	Sep 2025 – Dec 2025
<ul style="list-style-type: none">Performed CFD analysis of non-Newtonian fluid flow in a soap dispenser using SolidWorks Flow Simulation to evaluate dispensing performance and shear-dependent behavior	
Mini Robot Car – Innovation Co-Lab, Duke	Sep 2025 – Nov 2025
<ul style="list-style-type: none">Assembled and programmed a mini mobile robotic system using Raspberry Pi, integrating mechanical assembly, sensors, and camera vision	

SKILLS & INTERESTS

Technical Skills: 3D Computer-Aided Design (CAD), SolidWorks, Autodesk Fusion 360, Onshape, Technical Drawing, Design for Manufacturing (DFM), Rendering (KeyShot), Injection Molding, Tolerancing, Draft Analysis

Analysis & Prototyping: Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), Prototyping, 3D Printing, Product Cost Analysis, Concept Sketching

Programming: Python, MATLAB, C/C++

Interests: Yoga, volleyball, snowboarding