ANNEMARIE HORN

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EDUCATION

Duke University, Durham, NC — Aug 2025 – Dec 2026
Master of Engineering, Mechanical Engineering — GPA: 3.96/4.00
Relevant Coursework: Advanced Design & Manufacturing, Experimental Design

Dartmouth College, Hanover, NH — Sep 2018 – Jun 2022
Bachelor of Arts, Engineering Sciences Modified with Economics — GPA: 3.51/4.00
Honors/Awards: Phillip R. Jackson Engineering Award; Division I Varsity Volleyball

EXPERIENCE

DS&P Digital Marketing & PR Agency, Remote — Jun 2026 – Present
Illustrator, Designer, & Content Creator

- Managed the primary client relationship for a multi-week engagement, developing and executing a content strategy from planning through delivery
- Conducted market and competitor research using SEMrush and Meta Ad Library, analyzing SEO performance and synthesizing findings into client-facing reports and strategic recommendations
- Designed a logo for a financial services client that was selected and adopted as the company's official logo

Quadpack, Barcelona, Spain — Feb 2025 – May 2025
R&D Product Engineering Intern

- Created 3D CAD models of cosmetic packaging products in SolidWorks, incorporating DFM principles for tight-tolerance injection molding, including draft angles, wall thickness, and parting lines
- Led the standardization of 470+ supplier-facing 2D technical drawings, coordinating with 10+ suppliers to ensure manufacturability and accuracy of dimensions, tolerance stack-ups, bills of materials, and templates
- Collaborated in cross-functional product innovation sessions to resolve CAD errors for a textured applicator, enabling the successful launch of the Serenity Tube

PROJECTS

Cystoscope, Inhaler Spacer, & Annuloplasty Ring – Advanced Design & Manufacturing, Duke — Sep 2025 – Dec 2025

- Designed medical devices using human-centered design principles, 3D CAD, and DFM, considering ergonomics and manufacturability

Tendon-Driven Robot – Capstone Team Project, Duke — Sep 2025 – Dec 2025

- 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

- 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

- Assembled and programmed a mobile robotic system using Raspberry Pi, integrating mechanical assembly, sensors, and camera vision

SKILLS & INTERESTS

Technical Skills: 3D Computer-Aided Design (CAD), SolidWorks, Design for Manufacturing (DFM), Technical Drawing, Prototyping, 3D Printing, Autodesk Fusion 360, Onshape, Tolerancing, Injection Molding, Draft Analysis, Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), Rendering (KeyShot), Python, C/C++, Excel, SQL, Git/GitHub, VS Code, Docker

Interests: Yoga, volleyball, snowboarding