

# Dagny Lott

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Rising sophomore taking the year off from college to acquire real-world engineering experience.  
Seeking an internship for the spring and/or summer of 2021.

## EDUCATION

**University of Pennsylvania**, Philadelphia, PA May 2024

B.S.E. Mechanical Engineering and Applied Mathematics; Minor in Computer Science; **GPA:** 3.88/4.0

*Relevant Courses:* Intro to Scientific Computing • Intro to Mechanical Design • Multivariable Calculus

**Strath Haven High School**, Wallingford, PA June 2019

- WSESPA Scholarship (2019) - Faculty chose one senior who greatly impacted the school atmosphere
- Michael Francis Award (2019) - Players on the girls' basketball team nominated a senior who showed dedication to the program, a strong desire to improve, and a positive attitude

*Relevant Courses:* Linear Algebra • Auto Lab • Wood Tech

## WORK EXPERIENCE

**Temple Allen Industries**, Rockville, MD

*Mechanical Engineer Intern*, August – December 2020

- Developed a new system prototype aimed at automating the sanding process of wind turbine blades. As lead designer, I created CAD models, identified requirements, and produced marketing material
- Collaborated with the production and engineering team to model and create drawings (in SolidWorks) of a system that would validate new, million-dollar subsystems and software
- Spearheaded the design and construction of test fixtures to improve quality control of pneumatic parts

**Swarthmore Swim Club**, Swarthmore, PA

*Sub-Assistant Manager*, Summer 2020

- Managed over 15+ staff members, responded to concerns from members (while closely monitoring their safety), frequently adjusted the chlorination system, and jump-started pool filter

*Lifeguard & Swim Instructor*, Summers 2016 - 2020

- Earned Red Cross Lifeguard Certification (expires May 2021)
- Taught private and group swim lessons to beginner, intermediate, and advanced swimmers

*Water Show Director*, Summers 2017 & 2018

- Produced the annual musical at my local swim club at the age of 15 and 16
- Organized three weekly practices to demo and rehearse the choreography with groups of kids, orchestrated two dress rehearsals of over 35 kids/staff members, & delegated tasks to pool employees
- Created the script, music playlist, props, costumes, and a theatrical set

## LEADERSHIP & ACTIVITIES

**Penn Women's Ultimate Frisbee Club** (A Team) September 2019 - Present

**Strath Haven Emergency Response Team**, *Member* January 2017 - June 2019

- Improved school safety by conducting fire and lock down drills, responding to bomb threats, facilitating annual mock crash, and helping organize yearly Red Cross blood drive

**Strath Haven National Honors Society**, *Vice President* November 2017 - June 2019

**Strath Haven Ultimate Frisbee**, *Captain* May 2017 - June 2019

**Photography** June 2017 - January 2019

- Published "Floating Photographer" column in local newspaper every other month, photographed the Eagle's halftime show (2017) and high school graduation ceremonies (2017 & 2018)

## SKILLS

**CAD:** SolidWorks / **Programming:** MATLAB, Java, HTML, CSS, JavaScript, Arduino Boards / **Software:** Microsoft Office, Adobe Photoshop / **Other:** Machine Tools, Soldering