

Luca Nettter

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EDUCATION

Lehigh University

Bachelor of Science, Mechanical Engineering (GPA: 3.7)

May 2028

Bethlehem, Pennsylvania

- **Achievements:** Dean's List
- **Coursework:** Engineering Mechanics, Thermodynamics, Graphics for Engineering Design

TECHNICAL PROJECTS

Smart Vaporizer Device for Quitting Assistance

- Designed and prototyped a microcontroller-based vaporizer using CAD software to limit daily usage based on a personalized quitting plan.
- Integrated an airflow sensor and Bluetooth microcontroller (ESP32) to track usage, enforce usage caps, and log real-time data.
- Focused on behavioral change and harm-reduction technology, aiming to support users in gradually reducing nicotine dependence.

3D Graphics Engine (Java)

- Built a fully functional graphics engine from scratch using only Java's built-in libraries, implementing vector and matrix transformations.
- Applied linear algebra, 3D geometry, and algorithm optimization to deepen understanding of computer graphics fundamentals.

Kalshi Weather Forecasting & Trading Engine (Python)

- Built an automated forecasting system using historical weather data and probabilistic modeling to predict daily high temperatures.
- Integrated the Kalshi API to analyze real-time market pricing and identify positive expected value contracts.

WORK EXPERIENCE

Lime Rock Resources | Summer Intern

Jun 2025 - Jul 2025

- Worked directly with engineering and investment teams to evaluate upstream oil & gas assets.
- Analyzed well performance, production decline curves, and maintenance metrics using Excel and MATLAB; findings were incorporated into internal asset review discussions.
- Built a full financial valuation model for an upstream natural gas producer, integrating production forecasts, commodity pricing assumptions, and reserve data.
- Presented model to the investment team; framework used to support acquisition evaluation and internal valuation benchmarking.

Seaport Global | Summer Intern

May 2025 - Jun 2025

- Participated in Seaport Global's immersive summer intern program, gaining exposure to the firm's daily operations across sales, trading, and research.
- Engaged with professionals across departments to develop a deeper understanding of capital markets, financial products, and client relationships.
- Attended mentorship and professional-development sessions to strengthen financial communication and analytical skills.

EXTRA CURRICULAR

Lehigh Baja SAE Club | Chassis Team

Sep 2024 - Present

- Collaborate with team members to design and manufacture an off-road vehicle for the annual SAE collegiate competition.
- Use SolidWorks and machining tools to prototype and analyze chassis components for stresses and strains under tolerances.

Lehigh Scholars of Finance | Member

Sep 2025 - Present

- Participate in leadership and ethics training focused on bridging finance and personal values.
- Engage with mentors and peers to explore principled decision-making in financial careers.

Psi Upsilon Fraternity | Merchandise Chair

Apr 2025 - Present

- Designed and managed production of chapter apparel and philanthropy merchandise.
- Implemented vendor comparison and budget tracking system to optimize order costs.
- Coordinated distribution logistics for the full chapter; improved turnaround time and reduced excess inventory.

TECHNICAL SKILLS

- **Programming:** MATLAB, Python, Java, HTML/CSS, Node.js, React, MySQL, Git
- **Software:** SolidWorks, Creo, Finite Element Analysis, Excel, Adobe Suite