

Westley Kleinman

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Education

Duke University | B.S. Mechanical Engineering | Class of 2028

Coursework: Engineering Design (EGR121), Computation Methods (EGR105), Calculus II (Math112), Physics for Engineers (Physics151)

Projects

Tri-Dimensional Topographic Map | *Entrepreneurial Venture* | 2021-2024

- Designed and produced 3D-printed trail maps providing undistorted topographic visualization
- Secured provisional patent and developed marketing strategy resulting in four-figure revenue
- Established partnerships with Visit Hot Springs and Arkansas NICA to expand market reach
- Applied skills in Fusion360, SolidWorks, and digital manufacturing techniques

Smart Water Bottle Cap | *Co-Lab Grant Recipient* | 2024 – Present

- Created a functional smart bottle prototype with real-time tracking capabilities by applying engineering principles
- Utilized SolidWorks for design, Arduino for programming, and user testing protocols for real world proof testing

Bucket Washing Mechanism | *EGR101 Freshman Design* | 2024

- Collaborated to design and fabricate a cleaning system for CompostNow containers
 - Reduced cleaning time by 43% through innovative mechanical design solutions
 - Contributed to prototype development using SolidWorks and laser cutting technologies
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Leadership and Activities

Cyberpatriot Team | Founder & Captain | 2019-2024

- Founded and led high school cybersecurity competition team to state championships (2021, 2024)
- Developed and implemented training program for 15+ team members across 3 competitive teams
- Designed real-time security strategies under competition constraints, achieving top state rankings

Duke Cycling Team | Team Member | 2024-Present

- Represented Duke University in collegiate cycling competitions
- Collaborated with team members on training regimens and race strategies

NICA Mountain Bike Team | Team Captain & Coaching Assistant | 2020-2024

- Led high school mountain bike team as Varsity captain for two seasons
 - Selected for MaccabiUSA National Team to compete internationally in Argentina
 - Cyclocross State Champion (2022)
 - Assisted coaches with training junior riders and organizing team practice sessions
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Technical Skills

- **Software:** SolidWorks, Fusion360, OnShape, Cura, MeshMixer, Microsoft Excel, Arduino IDE
- **Cybersecurity:** Windows 10/Server, Linux Ubuntu/Debian, Wireshark
- **Technical:** 3D Printing, Prototyping, Finite Element Analysis, Laser Cutting, Basic Electronics