

Westley Kleinman

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Duke University

B.S. Mechanical Engineering | Class of 2028

Innovation & Entrepreneurship Certificate | Theta Tau Member

Work Experience

Boyd Cycling Process Optimization Engineering Intern

- Enhanced carbon-rim fabrication by overhauling mold geometry and machine calibration, eradicating dry zones and standardizing resin distribution while maintaining competitive weight
- Conceived and built a custom wheel-impact rig (winch + electromagnetic stopper), validating rim durability to 40 J UCI standards with capability up to 200 J testing to prove increased durability of rims

Time Bicycles Engineering Intern | Clemson University - International Center for Automotive Research

- Assisted in R&D of RTM (Resin Transfer Molding) to reduce manufacturing time of carbon fiber bicycle frames by 90%
- Assessed and valued inventory during acquisition due diligence, identifying \$5,000,000 in assets
- Automated inter-company transaction workflows using Google Sheets + AI, cutting processing time by 80%

Projects

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Tri-Dimensional Topographic Map | Entrepreneurial Venture | 2021 - Present

- 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

Bucket Washing Mechanism | EGR101 Freshman Design | 2024

- Collaborated to design and fabricate a cleaning system for CompostNow containers, reducing cleaning time by 43%
- Contributed to prototype development using SolidWorks and laser cutting technologies

Plaquify | Entrepreneurial Venture | 2025 - Present

- Developed web application that auto-generates SVG artwork and integrates it into an e-commerce flow for selling custom plaques from Spotify API data

Leadership and Activities

Cyberpatriot Team | Founder & Captain | 2019 - 2024

- Founded and led high school cybersecurity competition team to state championships (2021, 2023, 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 President | 2024 - Present

- Organized executive meetings and multi-year planning with emphasis on supporting entry-level and less experienced riders
- Designed DukeCycling.dev to display ride schedules, document team history, and allow users to submit ride proposals

MaccabiUSA Pan-American Athlete | 2023 - 2024

- One of three Athletes who represented MaccabiUSA at the Pan-American games in Buenos Aires, Argentina for Cycling

Technology and Management Skills

- **CAD & Digital Fabrication:** Proficient in SolidWorks, Fusion360, OnShape, and MeshMixer for mechanical design and rapid prototyping; skilled in 3D printing preparation with Cura and Illustrator for laser cutting and digital manufacturing.
- **Software Development & Data Tools:** Experienced with Python, HTML, CSS, GitHub, and VS Code for web applications and automation; advanced in Google Sheets/Excel for workflow automation and financial modeling
- **Cybersecurity & Systems:** Knowledgeable in Windows Server and Linux Ubuntu administration; skilled in Wireshark for network analysis and Windows scripting for process automation.
- **Technical Project Management:** Applied engineering and software tools to lead multi-member teams, automate processes, and deliver projects in entrepreneurship, cycling, and cybersecurity competitions.