Kellan Glass

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EDUCATION

Beaver Country Day School — Chestnut Hill, MA
High School Diploma — Expected June 2028
GPA: 4.2 | SAT: 1520 (760 RW, 760 M) | PSAT National Merit Commended Scholar
Relevant Coursework: Advanced Honors Calculus, Advanced Math Topics
Qualified for Johns Hopkins Center for Talented Youth (CTY) through testing; 2021

ENGINEERING & RESEARCH PROJECTS

Gravity Well — Cohn Grant Research & Engineering Project — Mar–Nov 2026
- Conceived and proposed an interactive gravity well demonstrating orbital mechanics; won one of two Cohn Grants given to Beaver students to pursue a passion project
- Researched Kepler's laws, Newtonian mechanics, and orbital equations with a Harvard astrophysics professor and faculty advisors; authored a research paper
- Designed and fabricated a gravity well installation making physics accessible to the entire Beaver community

Social Impact Fellowship — Beaver Country Day School — Fall 2026
- Testing Wondi, an AI coaching app developed by an MIT researcher, and documenting feedback as part of its Quality Assessment Team; will lead student focus groups and gather pilot data to guide product improvements

NUVU Innovation School — Engineering & Design Term Away — Mar–Jun 2026
- **Ball Blast:** Co-designed a physics game exploring how variables affect a ball's flight; built the physical launcher
- **Canopy Clearer:** Co-designed a drone attachment prototype to selectively clear branches and support young tree growth in beaver habitats
- **Flower Light Installation:** Co-designed an adjustable flower shaped light exploring how color and form can respond to moods and sensory needs

Savannah — Student-Designed Project (SDP) — Spring 2025
- Invented and built an original casino style game integrating probability, physical design, and game mechanics
- Developed a Monte Carlo simulation to model landing probabilities, evaluate expected returns, and calibrate payouts
- Presented the game to seventh grade students to teach probability through interactive gameplay

LEADERSHIP & EXPERIENCE

DECA — Beaver Country Day School — 2024–Present
Vice President (2026–27); Project Manager (2025–26); Member (2024–25)
- Advanced to the Massachusetts DECA State Career Development Conference in 2025 and 2026
- Help lead club initiatives and support members preparing for business and entrepreneurship competitions

Beaver Country Day School Athletics — 2024–Present
- **Varsity Soccer:** Starting Varsity player, Captain for 2027-28 year
- **Basketball:** Varsity (2026–27); JV freshman and sophomore years; JV Most Valuable Player

Mount Kilimanjaro Summit — Summer 2026
- Summited Mount Kilimanjaro, Africa's highest peak, via the Rongai route in Tanzania

Dexter Southfield Science & Technology Camp — Summer 2025
- STEM Camp Intern: Supported hands-on science and engineering activities for younger students; received a Hiatt Leadership Grant

TECHNICAL SKILLS & INTERESTS

Engineering & Design: Mechanical Design, Physical Prototyping, Fabrication, Human-Centered Design
Mathematics & Research: Probability Modeling, Monte Carlo Simulation, Orbital Mechanics
Software: Microsoft Excel
Interests: Entrepreneurship, Product Design, Basketball, Soccer, Big Mountain Skiing