Jonah Intner

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Science, Philadelphia, PA *May 2029*
Candidate for Bachelor of Science in Engineering in Mechanical Engineering and Applied Mechanics | **GPA**: 4.0/4.0
Honors: Benjamin Franklin Scholar
Relevant Coursework: Machine Design & Manufacturing; CAD/CAM & Analysis; Statics & Strength of Materials; Thermal-Fluids

The Park School of Baltimore, Baltimore, MD *May 2025*
SAT: 1560 (790 Math, 770 Reading & Writing) | **GPA**: 4.0/4.0 unweighted

ENGINEERING TEAMS & PROJECTS

Penn Jet Propulsion | *Engine Team Member*, Philadelphia, PA *Fall 2025 – Present*
- Help develop a gaseous-hydrogen-fueled jet engine as a technology demonstrator for a fuel rarely used in jet engines
- Led much of the research and SolidWorks CAD for the engine's novel "micromix" injector assembly, using a plate of 78 distributed injection points to achieve even, stable combustion of gaseous hydrogen
- Develop the nitrous oxide oxidizer system and run Ansys Fluent nozzle flow simulations for the team's hybrid rocket engine

Project Wavefront | *Propulsion Engineer* *Fall 2026 – Present*
- Joined a student team whose methane/GOX rotating detonation rocket engine achieved 10+ s runs with 2+ detonation waves

Penn Electric Racing | *Mechanical Drivetrain Team Member*, Philadelphia, PA *Fall 2025 – 2026*
- Designed a new wheel speed sensing mechanism for the Formula SAE electric race car using Hall effect sensors and magnetic tone wheels, cutting tone wheel weight by ~80% and improving reliability over the previous design

Penn Engineering Course Projects, Philadelphia, PA *Spring 2026 – Present*
- *CAD/CAM:* On a 3-person team, designed the full drive and gyro-gimbal stabilization system for a gyro-stabilized monorail, including its sheet metal frame and a custom circuit board; prototyped and tested with 3D-printed iterations
- *CAD/CAM:* Designing an injection mold for 10 repeatable snap-fit LEGO axles; achieved a working snap fit on the first try
- *CAD/CAM:* Used Mastercam to CNC mill and turn aluminum and brass parts, including a hand sculpted in Blender
- *Machine Design:* Designed and built a self-running Stirling engine that reached ~1,600 RPM using an intricate pulley mechanism; won 1 of 2 Audience Choice Awards among 32 students at the final demonstration
- *Machine Design:* Machined engine components on the mill and lathe, consistently holding tolerances within ±0.001 in
- *ME Lab:* Designed a 7.76 g acrylic tension strap with FEA, 46% lighter than the class's next-lightest; validated in MTS testing

FIRST Robotics Competition Team 1719 | *Head of Robot Design*, Baltimore, MD *2021 – 2025*
- Led design of the 30-member team's robot, which won the Creativity Award at a 2025 FRC Chesapeake District event
- Mentored the team's underclassmen (most of its members) and taught formal Onshape CAD lessons to the full team

WORK EXPERIENCE

Whiting-Turner Contracting Company | *Intern*, Baltimore, MD *May – June 2025*
- Supported project managers with logistics and quality control on construction of a $100M+ Johns Hopkins Hospital wing

Boston University, Center for Mind and Culture | *Research Intern*, Remote *Summer 2024*
- Analyzed a longitudinal survey of several thousand participants and built neural networks to predict adolescent suicide risk

Deep Creek Sailing School | *Certified US Sailing Instructor*, Garrett County, MD *Summers 2023 – 2026*
- Coach 18 students ages 6–18 each week, each sailing their own small boat, while supervising on-water safety from a motorboat
- Taught several hundred students over four summers, advancing from intern (2023) to US Sailing–certified instructor

LEADERSHIP & EXTRACURRICULARS

Penn Club Ski Team | *Alpine Captain*, Philadelphia, PA *2026 – Present*
- Organize 5 regular-season races and Race Camp, a winter-break international training trip to Canada, for a 150-member team
- Coordinate with the USCSA league on race logistics for competitions that draw several hundred athletes each

Wharton Undergraduate Venture Group; Jewish Undergraduate Business Assoc. | *Member* *Fall 2026 – Present*
- Research startups in AI chip optimization and data center efficiency for AIN Ventures, a venture capital firm

Jewish Leadership Initiative | *Fellow*, Philadelphia, PA *Fall 2026 – Present*
- Selected through an application as 1 of ~12 fellows; the only fellow chosen to interview Pennsylvania First Lady Lori Shapiro

Books for Baltimore | *Co-Founder*, Baltimore, MD *2023 – 2025*
- Collected 2,300+ books across multiple drives for 3 underserved Baltimore elementary schools serving 1,500+ students
- Organized biweekly tutoring trips to 2 schools, filling all 15 bus seats each trip and keeping a waitlist of student volunteers

SKILLS & INTERESTS

Technical: SolidWorks (incl. Simulation), Onshape, ANSYS, Mastercam, Blender, CNC mill & lathe, laser cutting, soldering, Python
Certifications: Certified SolidWorks Associate (CSWA, 100% score), US Sailing Instructor
Interests: Sailing, skiing, waterskiing, wake surfing, mountain biking, hiking, travel, cooking (and eating) good food