

Mohammad Ariesh H. Qanit

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EDUCATION

Brown University, *B.Sc. Mechanical Engineering, Kessler Scholar 2028*

Providence, RI | **Expected Graduation May 2028**

Relevant Courses: Engineering Statics and Dynamics, Materials Science, Electricity and Magnetism, Multivariable Calculus (Physics/Engineering), Chemistry: Equilibrium, Rate, and Structure, Computing Foundations: Data, Introduction to Engineering, Single Variable Calculus (Physics/Engineering)

SAT Overall: 1520 Reading & Writing: 730 Math: 790

Afghan Turk Maarif Kabul Boys High School, 4.00 GPA

Kabul, Afghanistan | Class of 2020

ENGINEERING & TECHNICAL EXPERIENCE

Brown Space Engineering (*Structures subgroup member*)

Providence, RI | Sep 2024 - Present

- Collaborate on PVDX, a CubeSat project, focusing on structural design, manufacturing, and testing
- Utilize Onshape for CAD modeling and CNC machining of CubeSat components.

Brown Formula Racing (*Aerodynamics & Composites Team member*).

Providence, RI | Sep 2025 – Present

- Collaborate with the Aerodynamics & Composites team to design carbon fiber components for the Formula SAE car.
- Assist in developing new composite manufacturing methods, improving aerodynamic efficiency, and integrating tested components into the car's body system.

Brown Rocketry (*High-Power Rocketry Member*).

Providence, RI | Sep 2025 – Present

- Contribute to the design, simulation, and fabrication of high-power rockets using CAD, OpenRocket, and 3D printing tools
- Support ongoing efforts to develop a fiberglass and carbon fiber rocket for the 2026 International Rocketry Engineering Competition (IREC).

Alternative Energy Engineering (*Teaching Assistant, Brown University Pre-College Program*)

Providence, RI | Summer 2025

- Assisted the instructor in running a course on energy systems covering wind, solar, geothermal, and sustainable technologies.
- Guided students in lab experiments and energy simulations, ensuring safe practices and reinforcing engineering concepts.

Batteries Design Project (*Introduction to Engineering, Brown University, project member*)

Providence, RI | Oct 2025

- Worked with peers on designing a sustainable and cost-effective sodium-ion battery for grid energy storage.
- Contributed to research on improving battery cycle life and optimizing energy density for large-scale applications.

Afghanistan National Science Olympiad (*Electronic Recycle bin project Lead*)

Kabul, Afghanistan | 2019

- Designed and built an automated recycling bin using sensors to improve waste sorting and collection efficiency.
- Won Gold Medal for innovative design and social impact in sustainable urban development.

LEADERSHIP & SERVICE EXPERIENCE

National Student Leadership Forum on Faith & Values (*Brown University Representative*)

Washington, D.C. | Nov 2025

- Engaged with U.S. leaders, policymakers, and student delegates to discuss values-driven leadership and global citizenship.
- Participated in workshops centered on ethical decision-making, public service, and personal leadership development.

Brown University Pre-College Student Life (*Office Assistant*)

Providence, RI | Summer 2025

- Provided administrative and customer service support for Brown's Pre-College Student Life Office.
- Assisted in event coordination, campus tours, and office operations to enhance program organization and student experience.

Afghan Turk Maarif Training Center (*Physics and Math Tutor*)

Kabul, Afghanistan | Jan 2021 – Sep 2021

- Instructed high school students in physics and mathematics, improving comprehension and problem-solving skills.
- Led online SAT preparation courses tailored for Afghan students, especially girls with limited educational access.

Afghan Society at Brown, (*Co-Founder & treasurer*)

Providence, RI | Sep 2024 – Present

- Founded a student-led initiative to promote Afghan culture and heritage at Brown University.
- Organized Cultural events, networking opportunities, and fundraisers to support Afghan students and education initiatives.

Kimse Yok Mu Aid Campaign, (*Local fundraiser for Kabul City*)

Kabul, Afghanistan | Feb 2017 – Feb 2020

- Led fundraising efforts for humanitarian campaign supporting local communities in Kabul.
- Overcame donor acquisition challenges and increased community involvement.

SKILLS & INTERESTS

- **Technical Skills:** MATLAB, Python, Pyret, Microsoft Office, Fusion, SolidWorks, Adobe After Effects, Adobe Premier Pro, Adobe Illustrator
- **Language:** English (Fluent), Persian (Fluent), Turkish (Fluent), Pashto (Fluent), Hindi (Proficient), German (Proficient).
- **Interests:** Horse riding, reading, football, video games, gym