

# Tristan Bernard

Boston, MA | (908)-858-7343 | [bernard.tr@northeastern.edu](mailto:bernard.tr@northeastern.edu) | [www.linkedin.com/in/tristan-bernard-northeastern](https://www.linkedin.com/in/tristan-bernard-northeastern)

## EDUCATION

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### Northeastern University

Boston, Massachusetts

Candidate for Bachelor of Science in Mechanical Engineering

Expected May 2027

**GPA: 3.7**

**Honors:** Dean's List (Fall '23, Spring '23, Fall '24, Spring '24)

**Awards:** Deloitte Scholar, Gillman International Scholar, Ujima Global Scholar, Barnes Next Tech Scholar, AP Scholar

**Relevant Coursework:** Fluid Mechanics, Thermodynamics, Material Science, Mechanics of Materials, Statics, Probability and Statistics, Calculus 1-3, Physics 1&2, Chemistry for Engineers, Cornerstone of Engineering 1&2

## EXPERIENCE

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### GE Aerospace

Lynn, MA

Engines Co-op - Value Stream Team

July 2025 - Present

- Led **\$50,000+** in cost-saving process improvements by applying core engineering principles to take ideas from feasibility to completion.
- Analyzed data on **3,000+** team projects in Excel, identifying high-success workflows and adapting them across engine programs to improve efficiency and scalability.
- Collaborated with cross-functional teams to streamline **manufacturing**, enhancing delivery performance and operational efficiency

### Northeastern College of Engineering

Boston, MA

Research Assistant

December 2023 - May 2024

- Conducted experiments in nanodiamond rotational movement, assisting Professor Paul Stevenson's Physics Lab
- Earned **laser-safety certification** and adhered to strict lab protocols to ensure safe experimentation.
- Analyzed data trends and contributed findings to ongoing research discussions.

### Aero Northeastern

Boston, MA

Propulsion Team member

September 2023-April 2024

- Designed a regenerative rocket nozzle using SolidWorks and **NASA's CEA** (Chemical Equilibrium Analysis) to enhance propulsion efficiency.
- Collaborated with a multidisciplinary team in weekly meetings, applying aerospace engineering fundamentals to real-world projects.

## LEADERSHIP & PROFESSIONAL DEVELOPMENT

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### National Society of Black Engineers

Boston, MA

Treasurer

May 2024 – May 2025

- Spearheaded financial planning and budget management, securing sponsorships and leading fundraising events.
- Secured **\$13,000+** in funding, enabling 30+ members to attend the NSBE National Conference in Chicago.
- Implemented financial tracking systems, enhancing efficiency in expenditure approvals and reimbursements.

### Boeing Flight Competition

Atlanta, GA

Team Lead

February-March 2024

- Led a **top-10** placing glider team, using laser cutting and SolidWorks to design, assemble, and test, multiple glider prototypes with material and load requirements
- Researched and applied **aerodynamics principles**, optimizing wing angle, fuselage shape, and stabilizer placement.
- Analyzed flight data to enhance performance, making **data-driven** adjustments for maximum glide distance.

## SKILL & INTERESTS

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**Skills:** SolidWorks, Fusion, Arduino, C++, MATLAB, AutoCAD, Laser cutting, 3D printing

**Organizations:** Caribbean Student Organization, Ujima Global Leaders, AeroNU, Black Engineering Student Society

**Interests:** Cooking, Marvel, Legos, Baseball, Aviation, Astronomy, Volunteering, Mentoring