

Aditya Bose-Bandyopadhyay

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, Woodruff School of Engineering

Atlanta, GA

Bachelor of Science in **Mechanical Engineering** - GPA: 4.0

May 2027

- Woodruff School Chair's Ambassador in Leadership and Service
- **Minor in Computer Science** – Computational Data Analysis

GT Oxford Program – Summer 2025

EXPERIENCE

Invention Studio at Georgia Tech

Atlanta, GA

Vice President of Finance and Prototyping Instructor

November, 2024

- Present

- Streamlined \$500k annual budget workflow for the largest student-run makerspace in the U.S., improving purchasing efficiency and communication for 4,000+ users
- Designed and fabricated precision pieces (functional electric guitar body, embroidered jacket, color-changing photo frame) utilizing CNC, laser engraving, and 3d printing
- Trained and advised 100+ students in prototyping methods, emphasizing safety, process optimization, and design-for-manufacture principles

Institute of Materials Research at Washington State University

Pullman, WA

Researcher and Lab Technician

June 2022 –

August 2024

- First author on 2-author journal paper in Metallurgical and Materials Transactions A (2025)
- Oral Presentation at Materials Science and Technology (MS&T '23) Conference
- Quantified microstructural evolution of additively manufactured nickel under thermal stress using in situ electron backscatter diffraction (EBSD)

Trading Club at Georgia Tech

Atlanta, GA

Market Analyst and Trading Student

August 2024 –

May 2025

- Authored 10 weekly market commentaries summarizing trends, factor exposures, and probability-based forecasts for equity sector performance
- Completed a markets and game theory-based certification course emphasizing probabilistic reasoning and decision-making under uncertainty

Pullman High School Math Team

Pullman, WA

Treasurer

August 2020 –

May 2024

- Increased membership from 6 to 35 and yearly funding from \$600 to \$3500
- Led team to multiple state championships through targeted problem-solving sessions and strategy coaching

SKILLS/INTERESTS

Leadership: VP of Finance (Invention Studio), Captain – PHS Tennis Team & PHS Science Bowl Team

Publications: Bose-Bandyopadhyay, A., Field, D.P., "High-Temperature Microstructure Evolution of Additively Manufactured Nickel Using In Situ Electron Backscatter Diffraction," Metall Mater Trans A 56, 3137–3145 (2025). <https://doi.org/10.1007/s11661-025-07840-2>

Awards: USA Junior Math Olympiad Qualifier (2022 – top ~250 nationally), 4x AIME (2021-24), Washington State University Hackathon champion (2024), 2x Top 24 Team Captain at US DOE National Science Bowl (2023-24), 2x US National Chemistry Olympiad semifinalist (2023-24)

Technology: Programming (Java, MATLAB, SQL, C, Python - basic), Excel, Design (Solidworks, Fusion 360, NX)

Volunteer: Math/science tutor at Pullman High School, Assistant coach for Lincoln Middle School Science Bowl team

Interests: Tennis (district champion and 7th place WA State Championship), Chess – 1526 USCF rating, Guitar and Singing – given over 50 performances for audiences up to 600 people, Pandas