

Aditya Bose-Bandyopadhyay

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, Woodruff School of Engineering

Atlanta, Georgia

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

May, 2027

- Woodruff School Chair's Ambassador in Leadership and Service Fellowship
- **Minor in Computer Science** – Computational Data Analysis
- GT Oxford Program – Summer 2025

Pullman High School (PHS) – Valedictorian – Dual enrollment at Washington State University

June, 2024

EXPERIENCE

Invention Studio at Georgia Tech

Atlanta, Georgia

Vice President of Finance and Prototyping Instructor

November, 2024 - Present

Largest student-run makerspace in the US

- Streamlined management of \$500k annual operating costs
- Made fully functional electric guitar body, embroidered letterman GT jacket, and color-changing photo frame
- Volunteer as instructor (3 hrs/week) for manufacturing and prototyping tools including, but not limited to:
 - CNC, 3D printing, laser cutting/engraving, water jetting, woodworking, metalworking

Institute of Materials Research at Washington State University

Pullman, Washington

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
- Materials science research conducted on in situ heating of additively manufactured nickel (SEM, EDS, EBSD)

Georgia Tech Supersonics Club

Atlanta, Georgia

Structures sub-team

August 2025 - Present

- Manufacturing of wing and fuselage molds (woodworking and CNC)
- Conducted Finite Element Analysis for topology optimization

RoboJackets - RoboNav

Atlanta, Georgia

Mechanical Sub-team

August 2024 – May 2025

- Designed and manufactured robot to compete in Mini Rover Challenge 2025

Pullman High School Math Team

Pullman, Washington

Treasurer

August 2020 – May 2024

- Led growth of club (increased membership from ~8 to ~40 members and yearly funding from \$600 to \$3500)
- Individual and team state champion in several competitions

SKILLS/INTERESTS

Leadership: VP of Finance (Invention Studio at GT), Captain of PHS Tennis Team, Captain of 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 10th-grade-and-below students out of 40,000+), 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: Solidworks, Fusion 360 (CAM), Programming Languages (C, Java, MatLab, SQL), NX (CAD and NASTRAN)

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