

Aditya Bose-Bandyopadhyay

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, Woodruff School of Engineering Bachelor of Science in Mechanical Engineering <u>GPA: 4.0</u>	Atlanta, Georgia <i>May, 2027</i>
• 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 Vice President of Finance and Prototyping Instructor <i>Largest student-run makerspace in the US</i>	Atlanta, Georgia <i>November, 2024 - Present</i>
• 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 Researcher and Lab Technician	Pullman, Washington <i>June 2022 - August 2024</i>
• <u>First author</u> 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 Structures sub-team	Atlanta, Georgia <i>August 2025 - Present</i>
• Manufacturing of wing and fuselage molds (woodworking and CNC) • Conducted Finite Element Analysis for topology optimization	
RoboJackets - RoboNav Mechanical Sub-team	Atlanta, Georgia <i>August 2024 – May 2025</i>
• Designed and manufactured robot to compete in Mini Rover Challenge 2025	
Pullman High School Math Team Treasurer	Pullman, Washington <i>August 2020 – May 2024</i>
• 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:	<u>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). </u> https://doi.org/10.1007/s11661-025-07840-2
Awards:	USA Junior Math Olympiad Qualifier (2022 – top ~250 10 th -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 7 th place WA State Championship), Chess – 1526 USCF rating, Guitar and Singing – given over 50 performances for audiences up to 600 people