

JAY M. SEN

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Education

Rensselaer Polytechnic Institute (RPI), Troy, NY	Expected December 2028
Bachelor of Science, Mechanical Engineering, 3.62 GPA	
<i>Rensselaer Medalist</i>	
Relevant Coursework: Calculus I - III, Differential Equations, Linear Algebra, Statics, Material Science, Physics 1, CAD, Engineering Processes, Applied Statistics, AP Chemistry (4)	
Gateway High School (GHS), Monroeville, PA	August 2021 - May 2025
3.81 GPA, Rank 5/289	
Honors: Distinguished Honor Roll, National Honor Society, AP Scholar	

Work Experience

Director of IT, Sen Engineering Solutions, Inc., Monroeville, PA	June 2024 - Present
- Built and launched a fully dynamic Next.js website to repair site functionality and modernize brand identity	
- Diagnosed and resolved hardware and software issues regarding computers, security systems, and online meetings	
- Participated in contract and planning discussions with manufacturers and customers	
Dining Room Server, Juniper Communities, Monroeville, PA	February 2024 - August 2025
- Delivered meals promptly and accurately in accordance with dietary restrictions and resident preferences	
- Fostered a compassionate, positive, and respectful environment for residents during meal times	
- Maintained a clean and organized dining room following health and safety protocols	
- Communicated regularly with nursing staff to address resident needs or concerns	
- Conducted table setup, food prep, and kitchen support	

Skills

Siemens NX, SolidWorks, SolidWorks Finite Element Analysis, Mastercam, CNC, Manual Machining, GD&T, Product Development and Launch, Customer Service, Google Suite, Microsoft Suite

Extracurricular Activities

Rensselaer Motorsport	August 2025 - Present
- Currently designing and building a new pit cart for the team	
- Conducted FEA on rear wing truss using SolidWorks, improving Factor of Safety by ~2.0 to aid in aero development	
- Manufactured jigs and fabricated suspension components and supports	
- Served as Race Marshal to ensure overall safety by monitoring vehicle condition for potential issues and clearing loose pavement and debris from the track	
Eagle Scout, Scouting America	September 2013 - January 2026
- Eagle Scout Service Project: planned and built a 10 x 3 ft trail bridge in Boyce Park, Monroeville, PA	
- Leadership: Senior Patrol Leader (Feb 2023 - Jun 2025), Patrol Leader (Feb 2022 - Feb 2023)	
- Community Service (50+ hours): Community cleanups, trail maintenance, and summer camp maintenance	

Cello Performance

- 14+ years of private lessons, group lessons, and performances with Rana's Music Studio	January 2011 - Present
- Pennsylvania Music Educators Association Region 1 finalist (2019)	
- Gateway High School Orchestra Performance at Disney Springs, Lake Buena Vista, FL - Principal Cellist (2022)	
- Pittsburgh Symphony Orchestra Side-by-Side alternate cellist (2024)	

Community Service

- GHS Food Pantry (50+ hours): distributed food monthly to over 600 families	August 2021 - May 2025
- GHS Interact Club (20+ hours): Holiday Brunch at Forbes Hospital, Monroeville Park Cleanup, Rotary Club events	