

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

Rensselaer Medalist

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
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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

January 2011 - Present

- 14+ years of private lessons, group lessons, and performances with Rana's Music Studio
- 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

August 2021 - May 2025

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