

# Jonathan Ambrosino

Senior Staff Consultant



Jonathan Ambrosino is a Senior Staff Consultant for ESI. He previously worked for ESI as a Student Intern and Technologist. Mr. Ambrosino attended Pennsylvania State University where he worked as a Graduate Student Research Assistant, Teaching Assistant, and Work Study Lab Assistant in the University's Civil and Environmental Engineering Department.

Prior to joining ESI, Mr. Ambrosino amassed over 2 years of railroad experience in rail transportation engineering and railroad maintenance-of-way. His workload included lineside maintenance work, mechanized equipment operation, railroad bridge inspection, and bridge monitoring instrumentation installation. Railroad engineering is a specialty of Mr. Ambrosino and he continues to diversify his knowledge base and expertise.

## Licenses & Certifications

- Commonwealth of Pennsylvania EIT Certificate ET030969

## Positions Held

### Engineering Systems Inc., Peachtree Corners, GA

- Senior Staff Consultant, 2025 - Present
- Staff Consultant, 2023 - 2024
- Technologist, 2022 - 2023
- Student Intern, 2020 - 2022

### Pennsylvania State University, Civil and Environmental Engineering Dept., University Park, PA

- Graduate Student Teaching Assistant, 2022 - 2023
- Graduate Student Research Assistant, 2021 - 2022

### Pennsylvania State University, Railroad Transportation Engineering Dept., Altoona, PA

- Student Research Assistant, 2019 - 2020

### The North Shore Railroad & Affiliates, Maintenance-of-Way Dept., Northumberland, PA

- Temporary Worker, 2019

### Pennsylvania State University, Engineering Lab, Altoona, PA

- Lab Assistant, 2017 and 2018

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### ESi GA - Atlanta

430 Technology Parkway NW  
Peachtree Corners, GA 30092

### Education

M.Eng., Civil Engineering,  
Infrastructure, Pennsylvania State  
University, 2023

B.S., Rail Transportation  
Engineering, Pennsylvania State  
University, 2021

Minor, Mathematics Applications,  
Pennsylvania State University, 2021

### Areas of Specialization

Train Operations

Rail Safety, Rules, and Operations

Compliance and Security

Accident / Incident Investigation

Accident / Incident Case Analysis

Catastrophic Incident Response  
and Data Collection

Root Cause Analysis

Risk Analysis / Pre-Loss Audit



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## **Continuing Education**

- Wheel Rail Interaction (2024, 2025)
- Energy Crisis Leadership Course (2023)
- CPR Training Course (2021)
- Cal/OSHA Confined Space Entry Course (2020)
- NTSB Accident Investigation Orientation for Rail Professionals (2017)

## **Professional Affiliations/Honors**

- American Railway Engineering and Maintenance-of-Way Association (AREMA)
- Order of the Engineer (American Society of Civil Engineers [ASCE] Affiliated)
- American Institute of Steel Construction (AISC)
- Army Reserve Officer Training Corps (ROTC) Cadet