



## **JONATHAN AMBROSINO** **STAFF CONSULTANT**

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Jonathan Ambrosino is a 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 and Teaching 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.

### **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

### **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

### **Certifications**

Certified as an Engineer-in-Training (EIT) in the Commonwealth of Pennsylvania

### **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

August 2023

**Positions Held**

Engineering Systems Inc., Peachtree Corners, GA

Staff Consultant, 2023 - Present

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

**Continuing Education**

Energy Crisis Leadership Course (2023)

CPR Training Course (2021)

Cal/OSHA Confined Space Entry Course (2020)

NTSB Accident Investigation Orientation for Rail Professionals (2017)