

Shail Shetye

he/him/his

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Experience

Amtrak Philadelphia, PA / Northeast Corridor
Sr. Electrical Engineer Jan 2025 - Present

Currently working on Positive Train Control (PTC), one of the control systems that prevents unsafe train movement. Mostly focusing on the Advanced Civil Speed Enforcement System (ACSES).

Duties include:

- Investigating train operation issues, safety issues, and delays caused by PTC to ensure safe operation and on-time performance.
- Participating in test trains for testing modifications to system hardware and software.
- Leading or assisting with design, development, testing, implementation/installation, and day-to-day maintenance of the PTC system equipment onboard locomotives, on the wayside, and in the back-office.
- Working closely on projects and troubleshooting with field forces, other railroads, contractors, and vendors.
- Training other employees or field technicians on new processes or procedures.

Projects include:

- Back-Office: Safety TSR Server updates/cutovers, interoperability with other railroads, server management, contributing to internal codebases/software projects, using Docker to orchestrate and maintain internal system tools/infrastructure across multiple Linux servers, etc.
- Onboard: testing and commissioning new fleets/locomotives (Next-Gen Acela, Siemens Airo, ALC-42, etc.), testing/commissioning new onboard/wayside PTC radio variant, development/deployment of new in-house solutions to replace aging/end of life vendor products used on the wayside and onboard, etc.
- Wayside: designing and implementing new radio sites or upgrades/maintenance to existing radio sites to improve coverage and performance, updates to PTC due to new interlockings or changes to track structure, track speeds, interlocking plant, signaling, etc.

Electrical Engineer Oct 2020 - Jan 2025

Worked on ACSES PTC.

Duties included troubleshooting delays and assisting with new designs, development, testing, and implementation/install.

Projects included creating a central management server and contributing to a status monitoring tool (Python, web) for the Wabtec WRE Wayside Interface Units (WIUs).

Management Trainee Jun 2019 - Oct 2020

A member of the Amtrak Management Training Program's fifth cohort. Earned Engineering, Transportation, and Mechanical qualifications.

Worked a Transportation rotation with Amtrak and MARC between Baltimore and Washington DC, and a Mechanical rotation in Sunnyside Yard, NYC. Also worked a long-term placement with the C&S Communications Engineering department.

Intern May 2018 - Jun 2019

Worked in the C&S Department on Radio, Networking, and other types of Communications technologies. Also worked in the field in facilities and locations along the Right-of-Way.

Volunteering

Minquas Fire Company No. 2 Downingtown, PA

April 2024 - Present

Firefighter (Apr 2024 - Present)

Treasurer (May 2025 - Present)

Education

University of Colorado Boulder Master of Engineering
Engineering Management June 2021 - March 2024

Temple University Bachelor of Science
Electrical Engineering August 2015 - May 2019

Skills

ACSES/PTC Systems

back-office, wayside, onboard, radio, RF, communications, troubleshooting

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Railroad Experience

operations, communications, signals, positive train control

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Systems Administration

bash, Docker, ESXi, Linux, Windows, servers, networking

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Certifications

Northeast Operating Rules (NORAC)

Amtrak

2019 - Present

Roadway Worker Protection (RWP)

Amtrak

2018 - Present

Electrical Operating Instructions (AMT-2 B/C)

Amtrak

2018 - Present

Passenger Train Emergency Response (PTER)

Amtrak

2024

Hazardous Materials Awareness/Operations

PA State Fire Academy/Pro Board

2024 - Present

Firefighter I/II

PA State Fire Academy/Pro Board

2025 - Present

Fire and Emergency Services Instructor 1

PA State Fire Academy/Pro Board

2026 - Present

Basic Life Support / CPR Provider

American Heart Association

2024 - Present

Basic Life Support / HeartSaver CPR Instructor

American Heart Association

2026 - Present

Bloodborne and Airborne Pathogens

Emergency Care & Safety Institute / AAOS

2024

Stop the Bleed

American College of Surgeons Committee on Trauma

2024

IS-100, IS-200, IS-700, IS-800

FEMA, NFA

2024, 2025

Amateur Radio Technician (KC3WHR)

Federal Communications Commission

2023 - 2033

Last Updated

Résumé

www.shailshetye.com/shailshetye-resume.pdf

May 2026