# SHAIL SHETYE IPA: [eIl [eteI

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## Work Experience

Amtrak - Electrical Engineer

October 2020 - Present

Currently working on Positive Train Control (PTC), one of the control systems that prevents unsafe train movement. Mostly focusing on the Ádvanced 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.

- Design, installation, testing, and day-to-day maintenance of the PTC system equipment onboard locomotives, on the wayside, and in the backoffice.

- Working closely on projects and troubleshooting with other NEC railroads, contractors, and vendors.

- Projects include creating a central management server, contributing to a status monitoring tool for one of the wayside devices, using Docker to orchestrate and maintain internal system tools/infrastructure across multiple Linux servers, designing and implementing new radio sites and upgrades to existing sites to improve coverage and performance.

**Amtrak** - Management Trainee

June 2019 - October 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.

Duties included:

- Maintained newly installed Eventide voice recorders used to record critical phone and radio channels, trained and supported users.

- Maintained and troubleshot issues that arose in telecom infrastructure in a timely manner.

- Helped with planning and reviewing designs for upgrades to infrastructure at various offices, stations, facilities, and along the Rightof-Way.

Amtrak - Engineering Intern

May 2018 - June 2019

April 2024 - Present

Worked in the C&S Department on Radio, Networking, Power, and other types of technologies. Also frequently worked in the field with installs, repairs, management, etc. in facilities and locations along the Right-of-Ŵay.

## Volunteer Experience

Minquas Fire Company No. 2 - Firefighter

### Education

#### University of Colorado Boulder

**Engineering Management** 

Master of Engineering Completed coursework in: FPGA design, Internet of Things, Finance, Project Management, Product Development, Systems Engineering, etc.

#### **Temple University**

**Electrical Engineering** 

August 2015 - May 2019 **Bachelor of Science** 

June 2021 - March 2024

Completed coursework in: Electric Circuits, Digital Circuit Design, Processor Systems, Digital Signal Processing, Linear Algebra, C Programming, Embedded Systems Design, Java, Microelectronics, etc.

# Skills

#### **ACSES/PTC Systems**

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

#### **Railroad Experience**

Operations, transportation, NORAC, roadway worker protection, mechanical, blue flag protection, communications, signals, positive train control

#### Engineering

Systems engineering, system testing, V&V, technical writing, documentation, SOPs, Visio, CAD

#### Systems Administration

Bash, Red Hat, Cent)OS, Rocky, Debian, Ubuntu, Docker, ESXi, Windows, Linux, web hosting, dockercompose, troubleshooting

#### Software Programming

Python, bash, git, data science, R programming, Jupyter notebooks, web development, Java, Javascript, html, css, software testing

### Certifications

Northeast Operating Rules (NORAC) Amtrak

**Roadway Worker Protection (RWP)** Amtrak

**Electrical Operating Instructions (AMT-2) Class B** and Class C Amtrak

Passenger Train Emergency Response (PTER) Amtrak

Hazardous Materials Awareness/Operations PA State Fire Academy / National Pro Board

**Basic Life Support Provider** American Heart Association

BLS for the Healthcare Provider CPR/AED Adult and Pediatric Emergency Care & Safety Institute (AAOS)

**Standard First Aid** Emergency Care & Safety Institute (AAOS)

**Bloodborne and Airborne Pathogens** Emergency Care & Safety Institute (AAOS)

Stop the Bleed American College of Surgeons Committee on Trauma

**IS-100: Incident Command System** FEMA

**IS-700: National Incident Management System** FEMA

**Amateur Radio Technician** Federal Communications Commission

> Résumé Last Updated December 2024