

# SHAIL SHETYE

shail@shailshetye.com | www.shailshetye.com

## WORK EXPERIENCE

### **Electrical Engineer - Amtrak**

**Oct 2020 - 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.
- Design, installation, testing, and maintenance of the PTC system onboard locomotives, on the wayside, and in the back-office.
- 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.

### **Management Trainee - Amtrak**

**June 2019 - Oct 2020**

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

- Managed the maintenance of newly installed Eventide voice recorders used to record essential phone and radio channels, along with training and supporting users.
- Helped maintain and troubleshoot issues that arose in telecom infrastructure to keep operations running with minimal downtime.
- Helped with planning and reviewing designs for upgrades to infrastructure (fiber transport, new services, construction, etc.) at various offices, stations, facilities, and along the Right-of-Way.

### **Engineering Intern - Amtrak**

**May 2018 - June 2019**

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. along the Right-of-Way.

### **Lab Consultant - Temple University**

**Oct 2015 - May 2018**

Helped manage the labs for the Computer Science department. Troubleshot software/hardware, and resolved issues for students, faculty, and staff.

### **Teaching Assistant - Temple University**

**Jan 2016 - May 2016**

Teaching Assistant for two courses: "Ethical Hacking & Intrusion Forensics" and "Introduction to Digital Forensics". Duties included creating and grading labs, quizzes, and exams.

## EDUCATION

### **M.S. Electrical Engineering - University of Colorado Boulder**

**June 2021 - Present**

Expected graduation in 2024.

Completed coursework in: FPGA design, Internet of Things, and semiconductor devices.

### **B.S. Electrical Engineering - Temple University**

**Aug 2015 - May 2019**

Concentration in Computer Engineering

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

## SKILLS AND QUALIFICATIONS

- |                       |                         |                     |            |
|-----------------------|-------------------------|---------------------|------------|
| - ACSES/PTC Systems   | - NORAC Operating Rules | - Linux, Windows    | - C/C++    |
| - Telecom Engineering | - Server Management     | - Docker containers | - HTML/CSS |
| - Railroad Operations | - Bash, CLI tools       | - Python            |            |