

Shail Shetye

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WORK EXPERIENCE

Amtrak

Electrical Engineer

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).
- 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 the field equipment or system software.
- Design, installation, testing, 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 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, implementing, and testing improvements to the radio system; testing new equipment, software, and configuration updates before approving for use in production.

Management Trainee

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.
- Maintained newly installed Eventide voice recorders used to record critical phone and radio channels, trained and supported users.
- Maintained and troubleshot telecom infrastructure issues in a timely manner.
- 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

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.

EDUCATION

University of Colorado Boulder

Master of Engineering in Engineering Management

June 2021 – Mar 2024

- Completed coursework in: FPGA Design, Internet of Things, Semiconductor Devices, Finance for Technical Managers, Project Management, Product Development, Systems Engineering, etc.

Temple University

Bachelor of Science in Electrical Engineering

Aug 2015 – May 2019

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

SKILLS

Railroad Ops ●●●●●

PTC Comms/Back-Office ●●●●●

Troubleshooting ●●●●●

Linux, Bash ●●●●●

Docker ●●●●●

Python ●●●●●

- Project Management, Systems Engineering
- Radio & Communications Engineering
- Writing Documentation, Training Employees