



Alejandro Ng

Senior Electronics Technician, Transit Systems

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STRENGTHS



Fault Isolation

Intermittent power and signal faults became manageable through schematic review, measured testing, and patient bench work.



Preventive Planning

Equipment history shaped practical service sequences, helping maintenance teams protect vehicle availability during busy periods.



Field Diagnostics

When a vehicle issue resisted quick fixes, meters and oscilloscopes exposed root causes before parts were replaced.



Peer Leadership

Technicians sought guidance during difficult assignments, and shared safety reviews made field work more consistent.



Repair Documentation

Clear symptoms, parts, corrective actions, and final tests gave planners a dependable record for future service.

SKILLS

Electronic repair

Low voltage systems

Preventive maintenance

Test bench diagnostics

Schematic interpretation

GPS systems Fare equipment

ADA annunciators PA systems

SUMMARY

Electronics Technician with six years of hands on experience maintaining **low voltage** electronic, electrical, communications, computer, and electromechanical systems in fleet environments. Installs, tests, diagnoses, calibrates, adjusts, maintains, and repairs fare collection equipment, **destination signs**, ADA annunciators, PA systems, CCTV monitors, telephone systems, GPS devices, and digital fuel and mileage systems. Uses schematics, blueprints, meters, oscilloscopes, bench supplies, and manufacturer guidance to isolate faults and produce durable repairs. Builds preventive maintenance sequences around vehicle availability, programs field devices, controls repair parts, and documents service orders, repair histories, work records, and reports. Provides functional crew leadership, supports safe work practices, and holds a valid Arizona driver license, **Class A CDL**, **AC Recovery Certification**, and CNG Technician License.

EXPERIENCE

Senior Electronics Technician, Fleet Systems

Desert Line Fleet Technologies 📅 June 2023 - Present 📍 Tucson, AZ

Leads fleet electronics support across passenger information, communications, surveillance, GPS, and vehicle data platforms. Coordinates preventive maintenance, bench diagnostics, parts control, programming, documentation, and complex troubleshooting while supporting vehicle availability and safe field operations.

- Maintained fleet fare, GPS, CCTV, PA, communications, and vehicle data systems through scheduled service cycles.
- Built **preventive maintenance** sequences from equipment history and manufacturer guidance around changing fleet availability.
- Used **schematics**, meters, **oscilloscopes**, and bench supplies to isolate power, signal, connector, and component failures.
- Programmed GPS and digital fuel devices, then validated vehicle use data before maintenance planning.
- Managed test **bench supplies**, repair modules, connectors, **tools**, and diagnostic stock through regular inventory reviews.
- Led complex troubleshooting assignments, coached peers on safe practices, and improved **repair** documentation quality.

Electronics Technician, Transit Equipment

Canyon Transit Equipment Services 📅 July 2020 - May 2023 📍 Mesa, AZ

Installed, repaired, calibrated, and documented transit electronics across fare collection, passenger information, accessibility, surveillance, communications, and monitoring equipment. Interpreted diagrams, verified simulated loads, maintained repair histories, and prepared stock for preventive maintenance campaigns.

- Installed fare devices, destination displays, **ADA annunciators**, **CCTV monitors**, PA components, and communications hardware.
- Traced low voltage wiring faults from **blueprints** and **diagrams**, separating harness issues from failed modules.
- Calibrated analog and digital monitoring devices, then documented configuration values and functional checks.
- Repaired telephone and radio support electronics at the bench under simulated operating loads.
- Recorded symptoms, corrective actions, parts used, and final tests in equipment **repair histories**.
- Inspected incoming repair stock and staged equipment for scheduled **preventive maintenance** campaigns.

PROJECTS

Fleet Electronics Preventive Maintenance Program 📅 2025

CCTV systems

Communications systems

Calibration Parts inventory

Fault diagnosis

Repair documentation

LANGUAGES

English Native

Spanish Intermediate

MY CAREER

6.1
YEARS

● Senior Electronics Technician, Fleet Systems at Desert Line Fleet Technologies (3.2 Years)

● Electronics Technician, Transit Equipment at Canyon Transit Equipment Services (2.8 Years)

Structured maintenance sequences around equipment history, vehicle availability, manufacturer guidance, diagnostic results, and reliable service records.

Vehicle Data Device Validation 📅 2024

Programmed and tested GPS, fuel, and mileage devices, confirming accurate vehicle use information before maintenance planning.

LEADERSHIP & AWARDS

- Selected as functional crew lead for complex fleet electronics troubleshooting assignments.
- Recognized by maintenance peers for dependable bench diagnostics and clear repair documentation.
- Trusted to coordinate critical repair stock and vehicle electronics readiness during scheduled service campaigns.

EDUCATION

Associate of Applied Science in Electronics Technology

Pima Community College 🎓 GPA: 3.5 📅 2020 📍 Tucson, AZ

Coursework: *Electronic circuits, digital systems, instrumentation, electrical safety*

CERTIFICATIONS

- Class A Commercial Driver's License 📅 2024
- AC Recovery Certification 📅 2024
- Compressed Natural Gas Technician License 📅 2025
- Valid Arizona Driver License 📅 2024

TECHNICAL SKILLS

- **Transit Electronics:** Fare collection boxes, destination signs, ADA annunciators
- **Communication Systems:** PA systems, telephone systems, radio support electronics
- **Surveillance Systems:** CCTV monitors, vehicle surveillance, monitor testing
- **Vehicle Data Systems:** GPS monitors, digital fuel systems, mileage systems
- **Diagnostic Equipment:** Digital multimeters, oscilloscopes, bench power supplies
- **Electrical Documentation:** Blueprints, schematics, wiring diagrams
- **Maintenance Methods:** Preventive maintenance, corrective maintenance, equipment calibration
- **Inventory Operations:** Ordering, receiving, inspection, repair parts stocking
- **Service Records:** Service orders, repair histories, work records
- **Fleet Credentials:** Class A CDL, AC Recovery Certification, CNG license
- **Safety Practices:** Electrical safety, motorized equipment operation, field hazard awareness
- **Reporting Systems:** System programming, data downloads, vehicle use reporting

PROFESSIONAL AFFILIATIONS

- Transit electronics maintenance teams, Tucson, Arizona
- Fleet maintenance and vehicle technology operations community

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST