Title of Invention:

NeuraScore: AI-Powered Visual Quality Rating System for Field Diagnostics

Inventor:

James S. Kim

San Jose, California

Abstract:

NeuraScore is a standalone AI-driven scoring engine designed to evaluate the visual quality, safety, and craftsmanship of plumbing and other field service installations. Based on a 1-5 numerical scale with color-coded badge outputs, it provides clear, trust-building scores for both technician and client visibility. The system uses image-based criteria to assess functional and aesthetic quality, installation complexity, and real-world job constraints. NeuraScore is platform-agnostic and intended for lic...

Technical Field:

This invention relates to automated quality scoring in trade diagnostics. Specifically, it applies machine vision, trust-weighted classification, and tier-based output to generate digestible scores for end users and service providers.

Summary of the Invention:

NeuraScore accepts images of field work (e.g. plumbing installations), then evaluates the visible quality using predefined AI rules and comparative training models. The system outputs:

1. A score from 1-5
2. A color-coded trust badge (Red, Yellow, Orange, Green, Blue)
3. Contextual score breakdown (visible for technician)
4. Simplified trust messaging for client-facing views

It may be integrated into diagnostic dashboards or used as a scoring API. The invention includes:

- Badge system tied to numerical thresholds
- Visual input interpretation tied to key features (e.g., joint quality, slope, clearance, support)
- Score locking and audit trail hooks
- Messaging logic that alters based on viewer (client vs tech)

Core Claims:

1. A numeric scoring model derived from image input representing installation quality
2. A tier-based badge system connected to those numeric outputs
3. Audience-based messaging logic tied to score trustworthiness
4. Support for licensing the engine to third-party diagnostic or quoting systems
5. Score integration with training modules, trust reports, or reputation systems
6. Optional score modifiers based on photo metadata (angle, timestamp, geolocation)
7. Use across multiple trades including plumbing, HVAC, electrical, and more

---

Notes:

Filed by James Kim. NeuraScore may be referred to in other patents but is hereby locked as a standalone system for licensing, platform independence, and trust-standard branding.