SkillCam MVP Feature Report

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Customer Insights Summary

Through 17 interviews with trainers, trainees, and employers, three major challenges surfaced:

1. **Confidence Without Risk:** Trainees want to practice independently but fear damaging costly equipment without supervision.

2. **Slow, Inconsistent Feedback:** Evaluation depends on trainer availability and subjective scoring, delaying learning and progress.

3. **Low Post-Certification Readiness:** Employers find new workers technically qualified but lacking hands-on confidence and problem-solving skills. These insights reveal the need for a scalable, objective, and reliable feedback system that supports both learners and trainers while reinforcing skill mastery.

Core Product Concept

SkillCam is a web application that allows trainees to upload short videos of their practical tasks for AI-assisted evaluation and optional trainer review.

- **Primary Users:** Trainees and trainers in makerspaces, technical programs, or industrial training setups.

- **Value Proposition:** SkillCam provides a bridge between traditional in-person training and scalable digital assessment - offering structured, consistent feedback without needing a trainer physically present.

- **Vision:** To evolve into a real-time AI coaching system that gives live feedback during task execution.

Feature Rationale and MVP Scope

1. Video Upload Portal

Trainees need a safe way to demonstrate skills independently. Forms the entry point for every evaluation.

MVP Scope: Basic upload form with task type and metadata (e.g., tool used, difficulty level).

2. Automated Evaluation Summary

Feedback is slow and subjective. Demonstrates SkillCam's core innovation - AI-powered video analysis for standardized scoring.

MVP Scope: Use simple CV metrics or rule-based evaluation and output a summary scorecard.

3. Trainer Review Interface

Trainers want control and personalization in the feedback process. Combines human expertise with automation - trainers can review videos flagged by AI and add comments or approve scores.

MVP Scope: Trainer login, video list view, playback controls, and comment section.

4. Feedback Dashboard

Trainees need clear feedback to learn and improve. Displays automated and trainer feedback together, helping users visualize progress and next steps.

MVP Scope: A results page showing key metrics, trainer notes, and downloadable performance reports.

MVP Prioritization

The MVP focuses on completing one end-to-end value loop:

Trainee uploads task → AI evaluates → Trainer verifies → Trainee learns from feedback

Included for MVP: Video Upload Portal, Automated Evaluation Summary, Trainer Review Interface, Feedback Dashboard.

Deferred for Future Phases: Real-Time Feedback, Progress Tracking & Employer Reports.

Feature matrix on next page.

Feature Matrix (Visual Component)

Feature	Customer Insight Addressed	Value to User	Priority	MVP (Y/N)
Video Upload Portal	Trainees want safe, independent practice	Enables easy submission of recorded tasks	1	✅
Automated Evaluation Summary	Feedback is slow and inconsistent	Provides standardized, quick analysis	2	✅
Trainer Review Interface	Trainers need control and human oversight	Allows expert verification and comments	3	✅
Feedback Dashboard	Trainees need clear, actionable feedback	Displays results and trainer notes in one place	4	✅
Real-Time Feedback System	Future goal: continuous live guidance	Offers instant correction while performing tasks	5	❌
Progress & Employer Reports	Future goal: track improvement & hiring signals	Quantifies readiness over time	6	❌