

CLIENT PROJECT

IDEA TO MVP

ModProjectPro

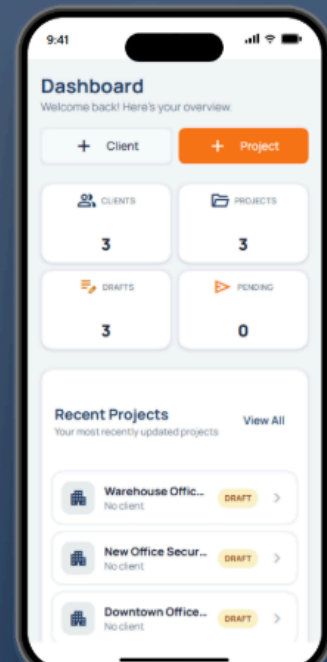
Low Voltage / Construction

Intelligent quoting tool for low voltage professionals with an expert system that catches missed line items.

From Site Walk to Signed Quote in Minutes

The field-to-quote platform for access control installers, fire alarm technicians, network pros, and security system contractors. Capture site details, get AI coaching on what you might have missed, and generate professional quotes faster than ever.

[See How It Works](#)



Expert

COACHING SYSTEM

Auto

QUOTE GENERATION

Full

STACK PLATFORM

<p>TIMELINE</p> <p>MVP launched 2026</p>	<p>KEY RESULT</p> <p>Expert system coaching that surfaces items contractors typically forget to quote</p>	<p>TECH STACK</p> <div style="display: flex; flex-wrap: wrap; gap: 5px;"> <div style="border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px; margin: 2px;">TypeScript</div> <div style="border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px; margin: 2px;">React</div> <div style="border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px; margin: 2px;">Python</div> <div style="border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px; margin: 2px;">FastAPI</div> <div style="border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px; margin: 2px;">PostgreSQL</div> <div style="border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px; margin: 2px;">Docker</div> </div>
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The Problem

Low voltage professionals responsible for door access, fire systems, networking, and camera installations spend hours manually building quotes after site visits. They take photos, scribble notes, and then sit at a desk translating it all into a quote. Items get missed, pricing is inconsistent, and turnaround is slow.

- ! Manual quote building from handwritten notes and memory
- ! Missed line items leading to underquoted jobs
- ! Hours spent on administrative work instead of billable field time
- ! No standardized process across team members

The Approach

The key insight was that project descriptions already contain the information needed to identify missing quote items. Instead of building a complex project management tool first, I focused on the highest value workflow: describe the job → expert system catches what you missed → build the quote.

<p>✓ Built mobile first since technicians work from the field</p>	<p>✓ Built a rapidfuzz + regex expert system that analyzes project descriptions and suggests missing items</p>
<p>✓ Designed the quote builder to generate professional PDF and DOCX exports with email delivery</p>	<p>✓ PostgreSQL holds the data and the quotes, clients, line items all interconnected</p>

INTENTIONALLY LEFT OUT

Deferred full project management, scheduling, and team coordination to a future phase. The MVP focuses purely on the quote workflow to prove the coaching system value.

The Solution

A full-stack platform where technicians describe their project scope, and an expert system analyzes the description to surface items they may have missed. The system builds an itemized quote that can be reviewed, exported as PDF or DOCX, and emailed directly to clients.

- ✓ Photo capture with image annotations
- ✓ Expert system coaching that catches missed line items using regex patterns and fuzzy matching
- ✓ Automated quote generation with PDF and DOCX export
- ✓ Client management and quote email delivery
- ✓ Quote snapshot system with revision history

Technical Highlights

Lightweight expert system using rapidfuzz matching and 75+ regex patterns across 6 trade categories – no heavy NLP dependencies

Three-state UI shows items already in quote, added this session, and available suggestions with confidence scores

Dockerized deployment for consistent environments across development and production

The Results

The MVP is live and in use. The expert coaching system catches missed line items that would have been lost revenue on quoted jobs.

510+

LV PRODUCT KNOWLEDGE

6

LOW VOLTAGE CATEGORIES

Mobile

FIELD-READY PWA

"I came in with an idea and Duane delivered everything, branding, logo, and a fully built MVP. Now I have a real product that anchors conversations about scaling into a larger platform."

Brent — Entrepreneur

Lessons & Takeaways

Expert systems need human confirmation

The coaching system catches items humans miss, but the technician's domain expertise is essential for validation. The sweet spot is coaching with AI, not replacing the technician.

Start with the pain point, not the platform

Resisting the urge to build a full project management suite and focusing on quote generation first meant I could validate the core value proposition quickly.

Mobile first is not optional for field workers

Every design decision had to work on a phone held in one hand on a job site. Desktop was secondary.

Have a Similar Challenge?

Let's talk about how I can help solve it.

[Start a Conversation](#)