

Manuel Welsch

Product Engineer · iOS, macOS

Open to product engineering roles, employed or freelance · Düsseldorf · Köln · Remote

mail@manuelwelsch.de manuelwelsch.de github.com/manuelsapps
linkedin.com/in/manuel-welsch

I care deeply about the small interactions that make great tools feel effortless, and the systems behind them that make complex workflows possible.

EXPERIENCE

Dotted Mind

Dec 2025 – present

Solo developer & designer · Self-employed, Düsseldorf

Native iPad app for Apple Pencil, rewritten with a new architecture.

- Public TestFlight beta since June 2026: 14 releases shaped by tester feedback. v1.0 in App Store review
- Fluid handwriting in notebooks of 10,000 pages: custom UICollectionView caching, profiled with Instruments
- Subscriptions (RevenueCat, StoreKit); iCloud sync (CKSyncEngine) in development
- CI/CD with GitHub Actions and fastlane, Swift 6 strict concurrency, 3,000+ tests
- Analytics (PostHog), crash reporting (Sentry), A/B flags

SwiftUI · UIKit · PencilKit · Core Data · CKSyncEngine · RevenueCat · PostHog

App Store

LKW.APP

Nov 2021 – Oct 2025

Mobile App Developer · Aparkado UG (start-up), Cologne / Remote

Europe-wide platform for truck drivers: truck-specific routing, parking information, community and partner integrations.

- Built and shipped app features end to end, from MVP to 50,000+ users, in an 8-person Scrum team
- Took on architecture and feature planning, backend reviews and selected backend features
- Owned releases and CI/CD; onboarded and mentored junior developers

Flutter · HERE SDK · Firebase · NestJS · GraphQL · Google Analytics

PERSONAL PROJECTS

Developer Tools

macOS / CLI

- **Device Runner** (in development): menu bar app to run any branch on any device or simulator without Xcode
- **ClipRef**: native macOS utility for Claude Code workflows

github.com/manuelsapps

Dotted Mind, first version

2019 – 2021

iPad app · Düsseldorf

First version with a beta (5 testers); rewritten as Dotted Mind in 2025.

Control System for Music Production and Performance

2015 – 2023

iPad/Mac app, hardware controllers, Python MIDI Remote Script · Düsseldorf

- Swift API on the Mac (event listeners, actions) bridged over OSC to Ableton Live, shared by my iPad app and hardware controllers with layered, shift-style controls
- < 5 ms MIDI/OSC latency through optimised network communication (AudioKit, SwiftNIO, Combine)
- Custom UI controls (faders, encoders) with SwiftUI Canvas and CALayer

SwiftUI · AudioKit · SwiftNIO · Combine · Python

EDUCATION

Bachelor of Science, Media Informatics, 2.0

Oct 2012 – Aug 2023

Hochschule Düsseldorf, University of Applied Sciences

Thesis: Low-latency, low-jitter MIDI/OSC transmission from Ableton Live to an iPad app

AudioKit · SwiftNIO · SwiftUI

Project: step sequencer controller for Ableton Live (two Launchpads, Teensy with endless encoder), team of two

HOW I WORK

I combine product thinking with disciplined engineering. I validate ideas early, let analytics and user feedback guide iteration, and build for reliability and scale where it matters most: data, sync, and performance.

I work with AI agents daily, delegating implementation while owning architecture, UX, and technical direction. This lets me prototype directly in the product and refine interactions until they feel right.

Every change goes through my review, strict Swift 6 concurrency checks, and automated tests. That's how I built Dotted Mind solo: 3,000+ tests and 14 beta releases.

SKILLS & INTERESTS

Apple	Swift · SwiftUI · UIKit · Swift Concurrency · PencilKit · Core Data · CloudKit · CKSyncEngine · StoreKit
Web & Backend	TypeScript · NestJS · Python · GraphQL · Google Cloud · Cloudflare
Quality & Delivery	CI/CD · Unit Testing · TDD · Performance Profiling (Instruments)
Languages	German (native) · English (fluent)
Interests	Photography · DIY · Cycling · Music