

Jianping Zhan

Mechanical Engineer -> Software Developer -> AI Builder

Mechanical Engineer | Component Verification Engineer | Software Developer

Dresden, Germany (Planned Relocation)

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PROFESSIONAL SUMMARY

Mechanical Engineer with 10+ years of engineering coordination, technical management, documentation, and organizational operations experience in a large military engineering organization. Recently transitioned into software development, AI applications, and iOS development, bringing disciplined systems thinking, structured problem-solving, and strong execution. Passionate about combining engineering thinking with modern software technologies and currently seeking opportunities in Germany in Component Verification, Mechanical Engineering, Validation Engineering, or Software Engineering.

CORE SKILLS

Mechanical Engineering | Component Verification | Validation Support | Technical Documentation | Project Coordination | Asset Management | Budget Administration | Process Optimization | Cross-functional Communication | Leadership | SwiftUI | iOS Development | TypeScript | JavaScript | Node.js | HTML / CSS | Git | AI Application Development | Prompt Engineering | Microsoft Office

PROFESSIONAL EXPERIENCE

Software Developer | AI Applications | iOS Projects | Independent Software Developer

Apr 2023 - Present

Self-employed

Designing and developing AI-powered applications, websites, and iOS apps with a strong focus on practical workflows and user value.

- Built and iterated software products across web, iOS, and AI-assisted workflows.
- Developed small but complete products independently, covering product design, implementation, testing, and iteration.
- Worked with SwiftUI, TypeScript, JavaScript, Node.js, HTML, CSS, and Git in real project delivery.
- Applied LLM integration and prompt engineering to productivity-oriented AI applications.

Staff Officer | Engineering and Administration | Military Engineering Organization (China)

Jun 2015 - Mar 2023

Responsible for engineering administration, project coordination, budgeting, reporting, and organizational operations within a large military engineering environment.

- Coordinated large-scale meetings, conferences, official visits, and internal events across multiple departments.
- Prepared technical documents, reports, submissions, and administrative materials with high accuracy and consistency.
- Managed project applications, qualification submissions, annual procurement planning, and asset registration workflows.
- Administered budget planning, travel expenses, reimbursement processes, and engineering asset management systems.
- Responded quickly to urgent operational issues and coordinated problem resolution under time pressure.
- Improved administrative efficiency through standardized processes, clearer documentation, and stronger coordination discipline.

Staff Officer | Military Engineering Organization (China)

Oct 2014 - Jun 2015

- Supported department leadership in daily operations, reporting, and meeting preparation.
- Organized meetings, training activities, and official visits with structured follow-up and documentation.
- Prepared reports, meeting materials, and communication documents for internal coordination.

Deputy Company Commander | Military Engineering Organization (China)

Jun 2012 - Oct 2014

- Managed daily operations of an engineering unit of about 50 personnel.
- Coordinated logistics, personnel administration, training, and execution of unit activities.
- Supported leadership, team management, and task delivery in a disciplined operational environment.

SELECTED PROJECTS

Screenshot Cleaner (iOS) | SwiftUI

- Designed and developed an iOS utility for screenshot cleanup and storage management.
- Implemented automated scanning, storage analysis, and batch deletion flows.
- Optimized the app structure and interaction flow for App Store release readiness.

AI Applications | LLM integration | Prompt Engineering

- Built AI-assisted workflow tools focused on productivity and practical daily use.
- Worked with LLM APIs and prompt engineering to improve quality, usability, and reliability.

EDUCATION

Air Force Engineering University | Bachelor of Engineering

Mechanical Engineering and Automation

2008 - 2012

CERTIFICATES

- College English Test Band 6 (CET-6)
- National Computer Rank Examination Level 3
- Driver's License (Class C1)

LANGUAGES

- Chinese - Native
- English - Intermediate (CET-6)
- German - Learning (Target B1)

TECHNICAL SKILLS

Programming: SwiftUI, TypeScript, JavaScript, Node.js, HTML, CSS, Git

AI: OpenAI API, Claude, Prompt Engineering, LLM Applications

Office: Microsoft Word, Excel, PowerPoint

ADDITIONAL INFORMATION

- More than 10 years of experience in engineering coordination and organizational management.
- Strong communication, documentation, and cross-functional coordination skills.
- Excellent ability to work under pressure and handle multiple concurrent tasks.
- Fast learner with strong adaptability and a practical execution mindset.
- Team-oriented and reliable, with disciplined follow-through on complex responsibilities.