

Website Specification & Vibe Coding Prompting

Spec: aeroautomate.tech

1. Executive Summary & Brand Direction

This document establishes the structural, technical, and visual architecture for **aeroautomate.tech**. The objective is to engineer an enterprise-grade, high-converting, AI-native platform web experience that seamlessly combines the navigational hierarchy of Atlassian, the service modularity of OrangeMantra, and the futuristic high-tech aesthetic of Functionize.

Reference Archetype	Key Structural Borrowings	Applied to aeroautomate.tech
Atlassian	Mega-menu navigation, tabbed capability matrix, modular component ecosystem.	Header mega-menu, interactive platform tabs, dynamic workflow switchers.
OrangeMantra	Service grids, multi-step lead capture, enterprise client trust signals, industry matrices.	Service catalog cards, structured lead consultation forms, sector-wise automation grids.
Functionize	Dark mode high-contrast aesthetic, cyber-cyan accents, metric stat calls, bento layout.	Dark color system (#090D16), glowing pill badges, quantitative metric stat blocks.

2. Brand Identity & Technical Stack

2.1 Brand Domain & Details

- **Primary Domain:** aeroautomate.tech
- **Brand Positioning:** Next-Generation Agentic Automation & Engineering Platform
- **Core Value Proposition:** Autonomously plan, test, and execute complex digital and aerospace automation workflows.

2.2 Tech Stack Architecture

- **Framework:** Next.js 14+ (App Router, React Server Components)
- **Styling:** Tailwind CSS + Shadcn UI / Radix UI Primitives
- **Animations:** Framer Motion (Page transitions, dynamic tab switching, border hover glows)
- **Icons:** Lucide React
- **State Management & Forms:** React Hook Form + Zod Validation

2.3 Global Color System & Typography

```
:root {  
  --background: #090D16; /* Deep Space Dark */  
  --surface: #111827; /* Slate Card Surface */  
  --surface-border: #1F2937; /* Subtle Sub-border */  
  --primary: #2563EB; /* Atlassian Electric Blue */  
  --primary-accent: #38BDF8; /* Aero Cyan Glow */  
  --text-main: #F9FAFB; /* High-Contrast Crisp White */  
  --text-muted: #9CA3AF; /* Muted Text Gray */  
  --cta-accent: #F59E0B; /* High-Visibility Gold/Orange */  
}
```

3. Website Navigation Architecture (Atlassian Style)

The top header utilizes a sticky glassmorphic navigation bar with rich multi-column mega-menus:

3.1 Header Navigation Hierarchy

1. **Brand Identity:** Logo (aeroautomate.tech) with animated cyber-glow hover state.
2. **Products & Platforms (Mega-Menu Dropdown):**
 - **Autonomous QA Agents:** Independent verification layer for AI-written code.
 - **Aero Core Platform:** End-to-end task automation and workflow orchestration.
 - **MCP & Agentic Integrations:** Connect custom coding agents directly to production tools.
3. **Solutions & Services (Mega-Menu Dropdown):**

- **AI & Machine Learning:** Agentic AI, LLM fine-tuning, computer vision, predictive workflows.
 - **Cloud & DevOps:** DevSecOps, Kubernetes orchestration, multi-cloud migrations.
 - **Digital Transformation:** Custom software engineering, API development, workflow automation.
4. **Industries:** Aerospace & Defense, SaaS Enterprise, Financial Services, Healthcare, Logistics.
 5. **Pricing & Resources:** Usage-based pricing tiers, developer documentation, engineering blog.
 6. **Header CTAs:** "Sign In" link and a primary gradient button: [Launch Platform].

4. Section-by-Section Homepage Blueprints

4.1 Section 1: Cybernetic Hero Component

- **Headline:** "The Agentic Quality & Automation Layer for Enterprise Engineering"
- **Subheadline:** "aeroautomate.tech deploys autonomous AI agents that test, verify, and orchestrate mission-critical software workflows at scale."
- **CTAs:** Primary button [Start Free Trial] (Cyan glow effect) and Secondary button [Book Live Demo].
- **Visual Asset:** Interactive glassmorphism IDE terminal mockup showing live AI agent task execution.

4.2 Section 2: Enterprise Client & Trust Marquee

An infinite horizontal auto-scrolling logotape displaying key enterprise technology partners, security compliance certifications (SOC2 Type II, ISO 27001, FedRAMP), and client logos.

4.3 Section 3: Dynamic Capability Matrix (Tabbed Workflow)

A interactive tab system (powered by Framer Motion) enabling users to toggle between five core functional areas:

Tab Category	Key Focus Area	Visual Element Shown
Agentic QA	Autonomous UI and API testing agents.	Real-time auto-healing test script output console.

Tab Category	Key Focus Area	Visual Element Shown
DevOps Automation	Self-healing CI/CD pipelines & infrastructure.	Interactive cloud deployment node map.
Enterprise AI	Custom LLM integrations and MLOps.	Data flow architecture diagram.
Workflow Orchestration	Multi-agent task distribution and management.	Live task graph execution tree.

4.4 Section 4: Architecture Bento Grid (Functionize Style)

A 3-column Bento Grid highlight module featuring key differentiators:

- **Card 1: High Fidelity Verification** — Analyzes 200+ DOM and API data points per action.
- **Card 2: Sub-Minute Execution** — Specialized lightweight models running in parallel.
- **Card 3: Deterministic Core + Generative Intent** — Generative natural language parsing combined with deterministic machine learning verification.

4.5 Section 5: Impact Metrics & Social Proof

High-contrast numeric display counter grid highlighting verifiable impact metrics:

- **10x** Increase in deployment frequency.
- **75%** Reduction in time-to-market cycles.
- **80%** Lower test suite maintenance overhead.

4.6 Section 6: Consultation & Lead Capture Module

A dual-column conversion panel:

- **Left Side:** Contact info (sales@aeroautomate.tech, global office hubs, response guarantee).
- **Right Side:** Interactive inquiry form (Full Name, Work Email, Organization Size, Primary Interest dropdown, and Message field).

5. AI Vibe Coding Prompting Sequence

When generating this codebase in tools like Bolt.new, Cursor, or v0, execute the following

structured prompts sequentially:

// PROMPT 1: LAYOUT AND HEADER

Create a Next.js App Router root layout and responsive navigation header for aeroautomate.tech using Tailwind CSS, Radix UI, and Lucide Icons. Implement a deep dark background (#090D16), glassmorphic backdrop blur, mega-menu dropdowns for 'Products', 'Services', and 'Solutions', and a glowing cyan accent button 'Launch Platform'.

// PROMPT 2: HERO & MARQUEE TICKER

Build a hero section for aeroautomate.tech featuring a pill badge '[New] AI Agents 2.0 Live', a dynamic h1 headline 'The Agentic Quality & Automation Layer for Enterprise Engineering', dual action buttons, and an interactive dark-mode IDE window preview below. Underneath, add an infinitely scrolling logo marquee for enterprise client trust signals.

// PROMPT 3: BENTO GRID & TAB MATRIX

Construct a tabbed interactive capability section using Framer Motion that switches between 'Agentic QA', 'DevOps Automation', and 'Enterprise AI'. Beneath it, create a 3-column Bento Grid highlighting core features with hover glowing border effects.

// PROMPT 4: LEAD FORM & FOOTER

Build a dual-column consultation section featuring direct contact details on the left and a validation-backed inquiry form on the right. Conclude with a multi-column enterprise footer containing domain branding for aeroautomate.tech, legal links, and social links.