# 🚀 AI Crew Commander Suite - Master Project Plan

# **Project Overview**

Primary Application: AI Crew Commander Suite (Lead by ASTRA) Architecture: Modular plugin-based system Additional Programs: 2 companion programs (shared module ecosystem)

# **©** Core Requirements

## **Main Application Features**

- 1. **ASTRA Commander** Primary AI orchestrator
- 2. **22 Specialized AI Agents** Each with unique expertise
- 3. **Voice System** ElevenLabs female voice with lip-sync
- 4. Avatar System 4+ animated cyborg avatars with motion
- 5. Animated Backgrounds Cyberpunk aesthetic with movement
- 6. Autonomous Actions Can actually execute, not just advise

#### **Color Scheme**

- **Primary**: Blue ( #4EC5FF), Violet ( #AE71FF), Purple ( #9333EA)
- Accents: Silver ( #E2E8F0 ), Pink Glow ( #FF6B9D )
- Theme: Cyberpunk/Tech aesthetic

## AI Agent Roster (22 Agents)

- 1. Alpha Code (GPT-4o)
- 2. Beta UX/UI (Claude Sonnet)
- 3. Gamma Data Science (Gemini Pro)
- 4. Delta Security (WatsonX)
- 5. Epsilon DevOps (Bedrock Claude)
- 6. Zeta Finance (GPT-40)
- 7. Eta Research (Perplexity)
- 8. Theta Art (Claude Sonnet)
- 9. Iota Video (GPT-40)
- 10. Kappa Web Development (LLaMA 3 70B)
- 11. Lambda AI/ML (Mistral Large)
- 12. Mu Database (WatsonX)
- 13. Nu Testing (GPT-40)
- 14. Xi Documentation (Claude Sonnet)
- 15. Omicron Product (Gemini Pro)
- 16. Pi Marketing (Perplexity)
- 17. Rho Science (Gemini Pro)
- 18. Sigma Mathematics (WatsonX)
- 19. Tau Corporate Law (Claude Sonnet)
- 20. Upsilon IP Law (GPT-40)
- 21. Phi Web Automation (GPT-40)
- 22. Omega Self-Improvement (Claude Sonnet)

## **Knowledge Bases (12)**

- 1. Programming
- 2. Web Tech
- 3. AI/ML
- 4. Security
- 5. Finance
- 6. Science
- 7. Mathematics
- 8. Legal (Corporate, IP, Compliance)
- 9. Business & Management
- 10. Design & UX
- 11. Marketing
- 12. Automation

# **\*** Modular Architecture

### **Core System**

- Main application shell
- Agent orchestration
- Voice/Avatar system
- Communication bus for modules

## Pluggable Modules (Resource-Heavy)

- 1. Terminal Module Command execution
- 2. Video Editor Module Video editing tools
- 3. **Image Editor Module** Image manipulation
- 4. PDF Editor Module PDF viewing/editing
- 5. Word Processor Module Document editing
- 6. File Manager Module Project file management
- 7. Browser Automation Module Web control
- 8. Data Analytics Module Charts/analysis

# **Module Loading Strategy**

- Lazy load on demand
- Unload when not in use
- Share modules across 3 programs
- Plugin API for extensibility



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### **Frontend**

- React 18+
- Framer Motion (animations)
- Tailwind CSS
- Canvas API (backgrounds)
- Three.js (optional 3D)

## **Backend**

- Python 3.10+
- FastAPI
- CrewAI framework
- WebSocket (real-time)

## Voice & Media

- ElevenLabs API
- Browser