Patent Prosecution History Report

Confidential Document - Nexus Intelligent Systems, Inc.

1. Executive Summary

This Patent Prosecution History Report ("Report") provides a comprehensive review of the intellectual property portfolio and patent prosecution history for Nexus Intelligent Systems, Inc. (the "Company"), as of January 22, 2024. The report encompasses a detailed analysis of all active patent applications, granted patents, and ongoing prosecution efforts across the Company's core technological domains.

2. Patent Portfolio Overview

1 Total Patent Assets

- Active Patent Applications: 12

- Granted Patents: 7

Pending Applications: 5

2 Technology Domains

- Predictive Maintenance AI Algorithms
- Machine Learning Diagnostic Platforms
- Industrial Automation Systems
- Intelligent Data Processing Architectures

3. Detailed Patent Prosecution Analysis

1 Granted Patents

3.1.1 Patent US 10,987,654 - Predictive Maintenance AI Framework

- Filing Date: March 15, 2019

- Grant Date: September 22, 2021

- Examiner: Dr. Jennifer Liu, USPTO Technology Center 2100

Key Claims: Machine learning method for real-time industrial equipment diagnostics

- Current Status: Active and Enforceable

3.1.2 Patent US 11,234,567 - Intelligent Automation Platform

- Filing Date: November 8, 2020

- Grant Date: May 17, 2022

- Examiner: Robert Chang, USPTO Technology Center 2600

- Key Claims: Integrated AI-driven workflow optimization system

- Current Status: Active and Enforceable

4. Pending Patent Applications

1 Application US 17/456,789 - Advanced Predictive Analytics Architecture

- Filing Date: July 12, 2022

- Current Status: Examination in Progress

- Estimated Prosecution Timeline: 18-24 months

- Primary Technological Focus: Cross-domain machine learning integration

2 Application US 17/654,321 - Industrial IoT Diagnostic Protocol

- Filing Date: October 5, 2022

- Current Status: Office Action Response Pending

- Key Prosecution Challenges: Demonstrating non-obviousness against prior art

5. Prosecution Challenges and Strategies

1 Identified Prosecution Risks

- Potential prior art conflicts in machine learning diagnostic methodologies
- Complex claim construction in AI algorithmic patents
- Evolving USPTO examination standards for software and AI technologies

2 Mitigation Strategies

- Comprehensive prior art searches
- Detailed technical declarations
- Strategic claim narrowing and refinement
- Proactive engagement with patent examiners

6. Intellectual Property Management

1 Patent Maintenance

- Annual maintenance fees current and up to date

Ongoing monitoring of potential infringement

Regular portfolio review and strategic alignment

2 Confidentiality and Protection

All patent-related documents maintained under strict confidentiality

Non-disclosure agreements in place with external patent counsel

Secure document management protocols implemented

7. Legal Disclaimers

1 Limitation of Liability

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accuracy of the information contained herein.

2 Privileged and Confidential

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reproduction, or use is strictly prohibited.

8. Certification

I, Dr. Elena Rodriguez, CEO of Nexus Intelligent Systems, Inc., certify that the information

contained in this Patent Prosecution History Report is true and accurate to the best of my knowledge.

Dr. Elena Rodriguez

Chief Executive Officer

Nexus Intelligent Systems, Inc.

Date: January 22, 2024