

AMR DEVELOPMENT STRATEGIC PLAN 2019-2021

AUTONOMOUS MOBILE ROBOT (AMR) DEVELOPMENT

NaviFloor Robotics, Inc.

Confidential and Proprietary

1. EXECUTIVE SUMMARY

This Strategic Plan (the "Plan") outlines NaviFloor Robotics, Inc.'s ("Company") development roadmap for its Autonomous Mobile Robot ("AMR") technology for the period of January 1, 2019 through December 31, 2021. This document serves as the governing framework for the Company's research, development and commercialization initiatives.

2. STRATEGIC OBJECTIVES

-

1. **Primary Development Goals**

-

Enhancement of proprietary LiDAR-based terrain mapping system

-

Expansion of multi-surface navigation capabilities

-

Development of advanced fleet management algorithms

-

Integration of predictive maintenance protocols

-

Achievement of ISO/TS 15066:2016 compliance

- - 2 -

2. ****Market Position Targets****

-

Capture 15% market share in North American industrial AMR segment

-

Establish technology leadership in multi-surface navigation

-

Secure strategic partnerships with three (3) Tier 1 warehouse automation pro

3. **TECHNOLOGY DEVELOPMENT ROADMAP**

-

1. ****Phase I: Core Technology Enhancement (Q1-Q2 2019)****

-

Implementation of enhanced depth-sensing algorithms

- - 3 -

Development of proprietary surface recognition protocols

-

Integration of advanced obstacle avoidance systems

-

2. **Phase II: Fleet Management Platform (Q3 2019 - Q2 2020)**

-

Development of centralized fleet control architecture

-

Implementation of AI-driven task optimization

-

Creation of real-time performance monitoring systems

-

3. **Phase III: Advanced Features (Q3 2020 - Q4 2021)**

- - 4 -

Integration of machine learning capabilities

-

Development of predictive maintenance systems

-

Implementation of advanced security protocols

4. INTELLECTUAL PROPERTY STRATEGY

-

1. **Patent Applications**

-

File minimum of eight (8) utility patents covering core navigation technology

-

Submit four (4) provisional patents for fleet management innovations

- - 5 -

Pursue international patent protection in key markets

-

2. **Trade Secret Protection**

-

Implementation of enhanced source code protection protocols

-

Establishment of confidentiality procedures for proprietary algorithms

-

Development of employee IP assignment procedures

5. REGULATORY COMPLIANCE

-

1. **Safety Standards**

-

ANSI/RIA R15.06-2012 compliance

-

CE Marking requirements

-

ISO 13849-1:2015 implementation

-

2. **Quality Management**

-

ISO 9001:2015 certification

-

Implementation of Six Sigma protocols

-

Establishment of quality control documentation system

6. RESOURCE ALLOCATION

-

1. **Research & Development**

-

Annual R&D budget allocation: 28% of revenue

-

Core development team expansion to 45 engineers

-

Establishment of advanced testing facility

-

2. **Capital Investment**

- - 8 -

Testing equipment procurement: \$3.5M

-

Software development infrastructure: \$2.8M

-

Prototype development: \$1.7M

7. RISK MANAGEMENT

-

1. **Technical Risks**

-

Redundancy systems implementation

-

Failure mode analysis protocols

- - 9 -

Regular security audits

-

2. ****Market Risks****

-

Competitive analysis program

-

Alternative technology monitoring

-

Customer feedback integration system

8. SUCCESS METRICS

-

1. ****Technical Benchmarks****

-

Navigation accuracy improvement to 99.99%

-

System uptime target of 99.95%

-

Fleet coordination efficiency increase of 35%

-

2. ****Commercial Metrics****

-

Customer implementation success rate: 95%

-

Return on R&D investment: 3.5x

-

Market share growth: 5% annually

9. CONFIDENTIALITY AND PROPRIETARY RIGHTS

This Strategic Plan contains confidential and proprietary information of NaviFloor Robotics, Inc. and is protected under applicable intellectual property and trade secret laws. Unauthorized disclosure, copying, or distribution is strictly prohibited.

10. APPROVAL AND MODIFICATIONS

This Strategic Plan has been approved by the Board of Directors and may be modified only with written approval from the Chief Technology Officer and Executive Officer.

APPROVED AND ADOPTED this 15th day of December, 2018.

NAVIFLOOR ROBOTICS, INC.

By:

Dr. Sarah Chen

Chief Executive Officer

By:

Marcus Depth

Chief Technology Officer

By:

James Wilson

Chief Financial Officer

