

METHOD FOR GENERATING HIGH-RESOLUTION FLOOR MAPS

RESOLUTION OF THE BOARD OF DIRECTORS

OF NAVIFLOOR ROBOTICS, INC.

Method for Generating High-Resolution Floor Maps

Adopted: January 11, 2024

WHEREAS, NaviFloor Robotics, Inc., a Delaware corporation (the "Corporation") has developed certain proprietary technology and methodologies relating to high-resolution floor mapping for autonomous mobile robots; and

WHEREAS, the Board of Directors (the "Board") deems it advisable and in the

interests of the Corporation to formally document and protect the Corporation's
intellectual property rights in such technology.

NOW, THEREFORE, BE IT RESOLVED, that the following method for generating
high-resolution floor maps (the "Protected Method") is hereby acknowledged
and documented as proprietary intellectual property of the Corporation:

1. TECHNICAL SPECIFICATIONS

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1 The Protected Method comprises a multi-layer approach to floor mapping that

- (a) Primary LiDAR scanning at 0.5mm resolution
- (b) Secondary depth-sensing using proprietary marine-derived algorithms
- (c) Tertiary surface texture analysis using multi-spectral imaging
- (d) Real-time data fusion and processing

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2 The Protected Method specifically includes:

- (a) Simultaneous Localization and Mapping (SLAM) algorithms optimized for industrial environments
- (b) Dynamic obstacle detection and classification
- (c) Surface material characterization and classification
- (d) Multi-level mapping capabilities with automatic floor transition detection

2. IMPLEMENTATION REQUIREMENTS

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1 The Protected Method shall be implemented using:

- (a) Minimum of three (3) LiDAR sensors operating at 40Hz
- (b) Dedicated NVIDIA Jetson AGX Xavier processing unit

(c) Custom-developed sensor fusion software

(d) Proprietary calibration procedures

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2 Quality Control Parameters:

(a) Minimum resolution: 0.5mm at 1m distance

(b) Maximum mapping speed: 2.5 m/s

(c) Error tolerance: $\pm 0.25\text{mm}$

(d) Real-time processing latency: $< 50\text{ms}$

3. INTELLECTUAL PROPERTY PROTECTION

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1 The Corporation shall take all necessary steps to protect the Protected Method

(a) Filing patent applications in relevant jurisdictions

- (b) Maintaining trade secret protection for non-patentable elements
- (c) Implementing appropriate security measures
- (d) Requiring confidentiality agreements from all parties with access

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2 Documentation Requirements:

- (a) Maintenance of detailed technical documentation
- (b) Regular updates to reflect improvements and modifications
- (c) Secure storage of all related materials
- (d) Version control and change management procedures

4. AUTHORIZATION

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1 The officers of the Corporation are hereby authorized and directed to:

- (a) Execute all necessary documents to protect the Protected Method
- (b) Allocate necessary resources for ongoing development
- (c) Establish appropriate security protocols
- (d) Implement necessary training programs

5. CERTIFICATION

The undersigned hereby certifies that the foregoing is a true and correct copy of a resolution duly adopted at a meeting of the Board of Directors of NaviFL Robotics, Inc. held on January 11, 2024, at which a quorum was present and voting throughout, and that such resolution has not been modified, rescinded, revoked and is in full force and effect as of the date hereof.

IN WITNESS WHEREOF, the undersigned has executed this Resolution as of January 11, 2024.

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James Wilson

Secretary

NaviFloor Robotics, Inc.

[CORPORATE SEAL]

