

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3738872

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KANG G. SHIN	02/09/2016
YUANCHAO SHU	02/06/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE REGENTS OF THE UNIVERSITY OF MICHIGAN
<b>Street Address:</b>	1600 HURON PARKWAY, 2ND FLOOR
<b>City:</b>	ANN ARBOR
<b>State/Country:</b>	MICHIGAN
<b>Postal Code:</b>	48109-2590
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15012957
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(248)641-0270
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
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<b>Correspondent Name:</b>	HARNESS, DICKEY & PIERCE, P.L.C.
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<b>ATTORNEY DOCKET NUMBER:</b>	2115-006507-US
<b>NAME OF SUBMITTER:</b>	TIMOTHY D. MACINTYRE
<b>SIGNATURE:</b>	/Timothy D. MacIntyre/
<b>DATE SIGNED:</b>	02/15/2016
<b>Total Attachments: 3</b>	
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# ASSIGNMENT

Serial No: 15/012,957

Filed: February 2, 2016

Title: Last Mile Navigation Using Smartphones

For good and valuable consideration, the receipt and sufficiency of which are hereby agreed, each of the undersigned hereby assigns to THE REGENTS OF THE UNIVERSITY OF MICHIGAN, Office of Technology Transfer, 1600 Huron Parkway, 2nd Floor, Ann Arbor, Michigan 48109-2590 and its successors and assigns ("Assignee") the entire right, title and interest in and to the patent rights of such undersigned disclosed in the application listed above, and in any and all applications claiming priority thereto, including any continuation, continuation-in-part, divisional, re-examination, reissue or prolongation thereof, and in any and all other applications anywhere in the world which the undersigned may file and/or be named as an inventor of, solely or jointly, on said patent rights, in any and all patents which may be obtained on any of said applications and in any and all reissues, reexaminations, supplemental examinations, inter partes reviews, oppositions, post-grant reviews, supplementary protection certificates and/or extensions thereof, including without limitation, the right to bring suit and to claim and retain all damages and/or seek other remedies for the past, present and future infringement of any of the foregoing, the right of priority, including without limitation to claim priority benefit of or to said patent applications, and request the Commissioner for Patents in the United States and similar authorities outside the United States to issue said patents to and in the name of the Assignee.

Each of the undersigned authorizes the attorneys of record in the application listed above to insert in this assignment the filing date and application number of the application listed above when officially known.

Each of the undersigned states that the application listed above is or was made or authorized to be made by him or her. Each of the undersigned believes himself or herself to be the original inventor or an original joint inventor of a claimed patent rights in the application listed above. Each of the undersigned acknowledges that any willful false statement made by him or her in this paragraph is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five years, or both.

Except in favor of Assignee, each of the undersigned warrants that: (i) he or she is the owner of all its rights, title and interests herein assigned and has the right to make this unconditional and irrevocable assignment to Assignee without obtaining any approval or permission of a third party; and (ii) there are no outstanding encumbrances, liens, prior assignments, licenses, or other obligations or restrictions on the rights, title and interests herein assigned.

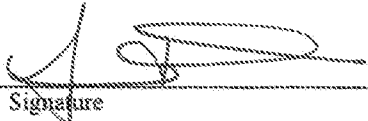
Upon the request of Assignee and at no expense to the undersigned, each of the undersigned hereby agrees to execute any and all applications on said patent rights, including without limitation for the reissue, reexamination, supplementary protection certificate or extension thereof and any oath, declaration or affidavit relating thereto that said Assignee may deem necessary or expedient, and to cooperate to the best of the ability of

the undersigned with and perform any and all affirmative acts requested by Assignee to prepare, file, prosecute, maintain, defend, enforce and vest in Assignee the rights, title and interests assigned herein, including without limitation, preparing and executing statements and giving and producing evidence in support thereof, whereby said rights, title and interests will be held and enjoyed by said Assignee to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

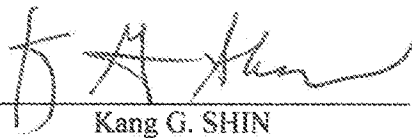
On behalf of Assignee,

Tara M. Hartman  
 Name  
 Associate General Counsel  
 Title

hereby confirms Assignee's acceptance of all rights, privileges, title and interests conveyed by this assignment.

 02/10/2016  
 Signature Date

Date: 2/9/2016

Signature:   
 Kang G. SHIN

Date: 2/9/2016

Signature:   
 Witness Name

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Yuanchao SHU

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Witness Name

the undersigned with and perform any and all affirmative acts requested by Assignee to prepare, file, prosecute, maintain, defend, enforce and vest in Assignee the rights, title and interests assigned herein, including without limitation, preparing and executing statements and giving and producing evidence in support thereof, whereby said rights, title and interests will be held and enjoyed by said Assignee to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

On behalf of Assignee,

\_\_\_\_\_  
 Name Tara M. Hartman  
 \_\_\_\_\_  
 Title Associate General Counsel  
 \_\_\_\_\_  
 Title

hereby confirms Assignee's acceptance of all rights, privileges, title and interests conveyed by this assignment.

\_\_\_\_\_  
 Signature \_\_\_\_\_  
 \_\_\_\_\_  
 Date 02/10/2016

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Kang G. SHIN

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Witness Name

Date: 2016.2.6

Signature: \_\_\_\_\_  
 Yuanchao SHU

Date: 2016.2.6.

Signature: \_\_\_\_\_  
 Witness Name