

## PATENT ASSIGNMENT COVER SHEET

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<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 WANG	10/26/2021
YUE WU	10/26/2021
MINWOO PARK	10/26/2021
GANG PAN	10/28/2021
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<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17452751
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<b>SIGNATURE:</b>	/Brooke Read/
<b>DATE SIGNED:</b>	10/29/2021
<b>Total Attachments: 3</b>	
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**ASSIGNMENT**

WHEREAS, we, Kang Wang, Yue Wu, Minwoo Park, and Gang Pan (“ASSIGNORS”), are the original and joint inventors of subject matter disclosed and/or claimed in a nonprovisional patent application, the title of which is:

**3D SURFACE STRUCTURE ESTIMATION USING NEURAL NETWORKS FOR  
AUTONOMOUS SYSTEMS AND APPLICATIONS**

for which we are about to make, or have made, application for Letters Patent of the United States. ASSIGNORS hereby authorize legal representatives of Shook, Hardy & Bacon L.L.P. to insert here in parentheses the Application No. ( 17/452,751 ), and Filing Date ( October 28, 2021 ), when known; and

WHEREAS, NVIDIA Corporation (“ASSIGNEE”), a corporation duly organized under the laws of the State of Delaware, and having its principal place of business at 2788 San Tomas Expressway, Santa Clara, California 95051, USA, is desirous of acquiring an interest in, to and under said invention, said application and any and all Letters Patent which may be granted for or upon said invention in the United States of America and all countries foreign thereto;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right, title and interest, throughout the world, in, to and under said invention as fully set forth and described in the above-identified application; in, to and under said application; in, to and under any and all refilings, divisions and continuations of said application; in, to and under any and all Letters Patent of the United States of America which may issue from said application, refilings, divisions and continuations; in, to and under any and all reissues of said Letters Patent of the United States of America; in, to and under any and all

applications for Letters Patent upon said invention which may hereafter be filed in any and all countries foreign to the United States of America; in, to and under any and all refilings, divisions and continuations of said foreign-filed applications; in, to and under any and all Letters Patent of countries foreign to the United States of America, which may issue from the said foreign-filed applications, refilings, divisions and continuations; and in, to and under any and all extensions of, and additions to, said Letters Patent of countries foreign to the United States of America, the same to be held and enjoyed by said ASSIGNEE, for its own use and behoof, and for its successors, legal representatives and assigns, to the full end of the term for which said Letters Patent may be granted, and ASSIGNORS do hereby authorize and request the Commissioner of Patents to issue the said Letters Patent in accordance with this assignment.

ASSIGNORS hereby further agree that we will communicate to ASSIGNEE, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid ASSIGNEE, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

EXECUTED this Oct 26, 2021 day of Oct 26, 2021, 2021.

Kang Wang  
Kang Wang (Oct 26, 2021 17:07 PDF)


Kang Wang

EXECUTED this Oct 26, 2021 day of Oct 26, 2021, 2021.

Yue Wu  
Yue Wu (Oct 26, 2021 14:28 PDF)

Yue Wu

EXECUTED this Oct 26, 2021 day of Oct 26, 2021, 2021.

  
Minwoo Park (Oct 26, 2021 10:38 PDT)

Minwoo Park

EXECUTED this Oct 28, 2021 day of Oct 28, 2021, 2021.

  
Gang Pan (Oct 28, 2021 11:10 PDT)

Gang Pan