

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5263029

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Philip Koopman	01/31/2017
Michael D. Wagner	01/31/2017
Justin Ray	01/31/2017
Aaron Kane	01/31/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CARNEGIE MELLON UNIVERSITY
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<b>City:</b>	PITTSBURGH
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	15213
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16068320
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
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<b>Phone:</b>	(858) 678-4705
<b>Email:</b>	apsi@fr.com
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<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
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<b>ATTORNEY DOCKET NUMBER:</b>	26100-0075US1
<b>NAME OF SUBMITTER:</b>	MARY FLORCZAK
<b>SIGNATURE:</b>	/Mary Florczak/
<b>DATE SIGNED:</b>	12/03/2018
<b>Total Attachments: 7</b>	
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## ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, PHILIP KOOPMAN, MICHAEL D. WAGNER, JUSTIN RAY, and AARON KANE, each individually assign to CARNEGIE MELLON UNIVERSITY, a University formed under the laws of Pennsylvania and having a principal place of business at 5000 Forbes Avenue, Pittsburgh, PA 15213, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "SAFETY ARCHITECTURE FOR AUTONOMOUS VEHICLES," and was filed in the United States Patent and Trademark Office on January 5, 2016, as application 62/387,804 (the "Application").

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and

documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

Philip Koopman  
PHILIP KOOPMAN

Date: 1/31/17

Witnessed by:

Signature: William Orozco

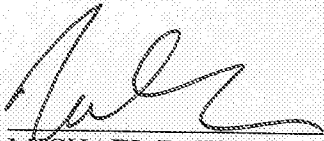
Date: 1/31/17

Print Name: William Orozco

Signature: Eric Sample

Date: 1/31/2017

Print Name: Eric Sample

  
MICHAEL D. WAGNER

Date: JAN 31, 2017

Witnessed by:

Signature: B. L. Olette


Date: JANUARY 31, 2017

Print Name: Brendon Olette

Signature: Zachary Rousseau

Date: JAN 31, 2017

Print Name: Zachary Rousseau

  
JUSTIN RAY

Date: 1/31/2017

Witnessed by:

Signature: Brendon Ouimette


Date: JANUARY 31, 2017

Print Name: Brendon Ouimette

Signature: Zachary Rousselet

Date: Jan 31, 2017

Print Name: Zachary Rousselet

  
AARON KANE

Date: 1/31/2017

Witnessed by:

Signature: Brendan Ouimette

Date: January 31, 2017

Print Name: Brendan Ouimette

Signature: Zachary Rossette

Date: Jan 31, 2017

Print Name: Zachary Rossette

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: CARNEGIE MELLON UNIVERSITY

Signature: \_\_\_\_\_

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

Name: \_\_\_\_\_

Title: \_\_\_\_\_

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\_\_\_\_\_  
AARON KANE Date: \_\_\_\_\_

Witnessed by:

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

Print Name: \_\_\_\_\_

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

Print Name: \_\_\_\_\_

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: CARNEGIE MELLON UNIVERSITY

Signature:  \_\_\_\_\_ Date: \_\_\_\_\_ March, 2017

Name: \_\_\_\_\_ Robert A. Wooldridge

Title: \_\_\_\_\_ Associate Vice Provost for Technology Transfer & Enterprise Creation

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