UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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TWITTER, INC.,
Petitioners

v.

PALO ALTO RESEARCH CENTER INC.,
Patent Owners

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Case IPR2021-01458
Patent 8,489,599

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DECLARATION OF SAYEM OSMAN

I, Sayem Osman, make the following Declaration pursuant to 28 U.S.C. § 1746:

1.   I am a senior litigation paralegal at the law firm of Paul, Weiss, Rifkind, Wharton & Garrison LLP.

2.   I provide this Declaration in connection with the above-identified Patent Owner's Preliminary Response to the *Inter Partes* Review proceeding that is being requested at the U.S. Patent and Trademark Office by Petitioners under 35 U.S.C. §§ 311-319, 37 C.F.R. § 42. Unless otherwise stated, the facts stated in this Declaration are based on my personal knowledge.

3.   EX1001 hereto is a true and correct copy of the United States Patent No. 8,489,599 B2, which I retrieved on August 27, 2021 from the Google Patents website (https://patentimages.storage.googleapis.com/b7/1f/9d/6608eeea9e6e51/US8489599.pdf). An exhibit label on the first page and page numbers on all pages have been added to the bottom of this document but no other alterations have been made.

4.   EX1002 hereto is a true and correct copy of the File History for U.S. Patent 8,489,599, which I retrieved on August 27, 2021 from the U.S. Patent & Trademark Office's Public PAIR Website (https://portal.uspto.gov/pair/PublicPair). An exhibit label on the first page and page numbers on all pages have been added to the bottom of this document but no other alterations have been made.

5.   EX1004 hereto is an excerpt from a true correct copy from the Declaration of Gordon MacPherson of IEEE (EX1014) containing "PALLAS: Personalised Language Learning on Mobile Devices." An exhibit label on the first page has been added to the bottom of this document but no other alterations have been made.

6.   EX1006 hereto is a true and correct copy of an article titled "CAST$_{middleware}$: Security Middleware of Context-Awareness Simulation Toolkit for Ubiquitous Computer Research Environment" by Insu Kim, *et al.* from Volume 344 of *Lecture Notes in Control and Information Sciences*, entitled *Intelligent Control and Automation, International Conference on Intelligent Computing, ICI 2006 Kunming China, August 16–19, 2006*, which I retrieved from Springer.com on August 30, 2021 (https://link.springer.com/chapter/10.1007/978-3-540-37256-1_61). An exhibit label on the first page and page numbers on all pages have been added to the bottom of this document but no other alterations have been made.

7.   EX1007 hereto is a true and correct copy of the United States Patent Application Publication No. 2003/0063072 A1, which I retrieved on August 27, 2021 from the Google Patents website (https://patentimages.storage.googleapis.com/ee/90/02/5dc649c28829b0/US20030063072A1.pdf). An exhibit label on the first page and page numbers on all pages have been added to the bottom of this document but no other alterations have been made.

8.   EX1008 hereto is a true and correct copy of the United States Patent No.

2009/0265764 A1, which I retrieved on August 27, 2021 from the Google Patents

website (https://patentimages.storage.googleapis.com/ca/87/ee/b3ca758ecfef56/

US20090265764A1.pdf). An exhibit label on the first page and page numbers on

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9.   EX1009 hereto is a true and correct copy of the United States Patent

Application Publication No. 2009/0254971 A1, which I retrieved on August 27,

2021 from the Google Patents website (https://patentimages.storage.googleapis.

com/4c/18/a7/25fb1a077877f4/US20090254971A1.pdf). An exhibit label on the

first page and page numbers on all pages have been added to the bottom of this

document but no other alterations have been made.

10.   EX1010 hereto is a true and correct copy of the International Publication No.

WO 2006/104345 A1, which I retrieved on August 27, 2021 from the Google

Patents website (https://patentimages.storage.googleapis.com/83/ab/33/

eb0fce0cc13da0/WO2006104345A1.pdf). An exhibit label on the first page and

page numbers on all pages have been added to the bottom of this document but no

other alterations have been made.

11.   EX1011 hereto is a true and correct copy of the United States Patent No.

7,130,622 B2, which I retrieved on August 27, 2021 from the Google Patents

website (https://patentimages.storage.googleapis.com/14/78/90/a85b66cc70c671/ US7130622.pdf). An exhibit label on the first page and page numbers on all pages have been added to the bottom of this document but no other alterations have been made.

12. EX1012 hereto is a true and correct copy of the United States Patent Application Publication No. 2004/0111477 A1, which I retrieved on August 27, 2021 from the Google Patents website (https://patentimages.storage.googleapis. com/22/5a/b6/4fa9f5c20f3557/US20040111477A1.pdf). An exhibit label on the first page and page numbers on all pages have been added to the bottom of this document but no other alterations have been made.

13. EX1016 hereto is the IEEEE information for Yau, *et al.*, "A Context-aware and Adaptive Learning Schedule framework for supporting learners' daily routines." I retrieved this exhibit on August 30, 2021 available at https://ieeexplore.ieee.org/document/4196333. An exhibit label on the first page and page numbers on all pages have been added to the bottom of this document but no other alterations have been made.

14. EX1017 hereto is the IEEEE information for ICONS International Conference on Systems and Yau. I compiled this exhibit on August 30, 2021 from https://ieeexplore.ieee.org/xpl/conhome/4196296/proceeding (including the main page, and by downloading the PDFs accessed by clicking on the linked "Cover,"

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