## UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD Google LLC Petitioner V. Cywee Group Ltd. Patent Owner

Case IPR2018-01257 Patent No. 8,552,978

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DECLARATION OF GARY L. BLANK, PH.D. September 14, 2018



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#### I. INTRODUCTION

- 1. I make this Declaration at the request of CyWee Group, Ltd, LLC regarding my opinions as an independent expert regarding issues raised in the matter of Petition IPR2018-01257 ("Petition").
- 2. I am being compensated for this work, and my compensation is not dependent on the outcome of this matter.
- 3. In preparation for this Declaration, I studied Exhibits 1001 1011 provided by Petitioner as well as the Petition.
- **4.** In preparing this Declaration, I relied, in addition to the above Papers and other documents, on my knowledge and experience gained through 50 years as an engineer, professor, and consultant.

### I. QUALIFICATIONS AND PROFESSIONAL EXPERIENCE

- **5.** My Curriculum Vitae is provided as Exhibit 2002. Following is a summary of my education and relevant experience.
- **6.** Educational Background

As a 15-year old Senior in High School, I applied for scholarships at top Engineering Schools. I was awarded a 4-year scholarship, (all tuition, books, supplies and living expenses) by the Ingersoll Foundation. I received a Bachelor of Science degree in electrical engineering with a minor in



Case IPR2018-01257 Patent No. 8,552,978 Declaration of Gary L. Blank, Ph.D.

mathematics from the Illinois Institute of Technology. I was elected by IIT to be published in "Who's Who Among Students in American Universities and Colleges 1958-1959", page 92. I was then awarded a 1-year fellowship (all tuition, books, supplies and living expenses) by the Kaiser Foundation, and received a Master of Science degree in electrical engineering with a minor in mathematics from the University of Idaho, completing and publishing a thesis on Control Systems. I was then awarded a 3-year fellowship (all tuition, books, supplies and living expenses) and received a Ph.D. in electrical engineering with a minor in mathematics from the University of Wisconsin, Madison, completing the requirements at the age of 23 years old. My research work, on the subject of Digital Nonlinear Control Systems, was published and presented at many conferences.

7. I have divided my professional experience between academia and industry. Experience in Academia includes:

After receiving my Ph.D., I held full-time academic positions at Marquette University (1964-67), Northern Illinois University ("NIU") (1982-86), and Illinois Institute of Technology (1986-1991). I also held part-time adjunct faculty positions for the University of Florida (1963-64), and the University of California, Los Angeles (1967-81). At NIU, I was involved in the creation of the Electrical Engineering Curriculum (which



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