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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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Samsung Electronics Co. Ltd., Samsung Electronics America, Inc., and Apple Inc.,  
Petitioners,

v.

Rosetta-Wireless Corporation,  
Patent Owner.

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Case IPR2016-00622  
Patent 7,149,511

**DECLARATION OF WILLIAM H. MANGIONE-SMITH, PH.D.  
IN RESPONSE TO PETITION FOR *INTER PARTES* REVIEW  
OF UNITED STATES PATENT NO. 7,149,511**

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Patent Trial and Appeal Board  
U.S. Patent and Trademark Office  
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Alexandria, VA 22313-1450

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## **I. Introduction**

### **A. Scope of Report**

1. My name is William Henry Mangione-Smith. Rosetta-Wireless Corporation (Rosetta) has retained me as a technical expert in regard to the above-captioned proceeding. The petitioners in this matter are Samsung Electronics Co. Ltd.; Samsung Electronics America, Inc.; and Apple Inc. (collectively, “Petitioners”).

2. I have been asked to provide my opinions regarding the Petitioners’ Petition for *Inter Partes* Review of U.S. Patent No. 7,149,511.

3. Unless otherwise noted, the statements made herein are based on my personal knowledge and if called to testify with regards to this declaration I could and would do so competently and truthfully.

4. In reaching my opinions in this matter, I have reviewed the Petition, the ‘511 Patent, the file history of the ‘511 Patent, the Declaration of Dr. Erez Zadok, “Windows CE Developer’s Handbook” by Terence A. Goggin (“Goggin”), and other materials cited or discussed herein. I also relied on my education and experience as a person of ordinary skill in the art.

### **B. Qualifications**

5. My curriculum vitae and testimony list are included in Appendix A to this Declaration. To summarize my qualifications, I hold three academic degrees in the field of Computer Engineering: a Bachelor of Science and Engineering, a Master of Science and Engineering, and a Doctorate of Philosophy degree. All of my

degrees were earned at the University of Michigan in Ann Arbor. I have been involved in the design of handheld communicating devices, image display devices, microprocessors, firmware and software for hardware and computer systems, and multimedia applications.

## **1. Education**

6. From 1984 until 1991 I attended the University of Michigan in Ann Arbor, Michigan. I was awarded the degrees of Bachelor of Science and Engineering, Master of Science and Engineering, and Doctorate of Philosophy. My doctoral research focused on high performance computing systems including computer architecture, applications and operating system software, and compiler technology. One of my responsibilities during my graduate studies included teaching senior undergraduate students who were about to enter the profession.

## **2. Professional Experience**

7. After graduating from the University of Michigan I was employed by Motorola in Schaumburg, Illinois. While at Motorola, I was part of a team designing and manufacturing the first commercial battery-powered product capable of delivering Internet email over a wireless (i.e., radio frequency) link and one of the first personal digital assistants. I also served as the lead architect on the second-generation of this device. Part of my responsibilities at Motorola involved the specification, design, and testing of system control Application-Specific Integrated Circuits (“ASICs”). I was responsible for quality control and maintenance of the device driver for a power management ASIC. I conducted the initial research and

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