I, BASIL HESS, of HAMMERSTRASSE 28, 8008 ZURICH, SWITZERLAND, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SUPERSINGULAR ISOGENY KEY ENCAPSULATION, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I do not hold and do not intend to hold any patent or patent application with a claim

I further declare that (check one):

implen	may cover the cryptosystem, reference implementation, or optimized nentations that I have submitted, known as SUPERSINGULAR ISOGENY KEY PSULATION; OR (check one or both of the following):
	to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable);
	I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: (describe and enumerate or state "none" if applicable)

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3 in the Call For Proposals for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances

made under Sections 2.D.1, 2.D.2 and 2.D.3 of the Call For Proposals, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Title: Cryptography Engineer Date: 24 November 2017 Place: Zurich, Switzerland

I, Craig Costello, of One Microsoft Way, Redmond, WA, 98052, USA, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SIKE – Supersingular isogeny key encapsulation, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that:

X I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SIKE – Supersingular isogeny key encapsulation.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Title: Dr Craig Costello

Date: 04/17/18

Place: Redmond, Washington

I, Luca De Feo, of IBM Research Zürich, Saümerstrasse 8, 8803 Rüschlikon, Switzerland, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SIKE, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

• I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SIKE.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Title: Dr.

Date: 15/01/2020 Place: Rüschlikon

2.D.1 Statement by Each Submitter			
I, Jan Joo of 368 Covends of Woler do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SIKE, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.			
I further declare that:			
• I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known asSIKE			
I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).			
I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment			
I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.			
I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.			
Signed: Title: Associate Prof. Univ. of Waterles Date: 4/11/18 Place: Fl. Landerdale, FL			

I, Reza Azarderakhsh, of 777 Glades Rd, EE 314, Boca Raton, FL 33431, Florida Atlantic University, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Supersingular Isogeny Key Encapsulation, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

which implen	I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Supersingular Isogeny Key Encapsulation ; OR (check one or both of the following):	
	to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem), may be covered by the following U.S.	
	and/or foreign patents: (describe and enumerate or state "none" if applicable);	
	I do hereby declare that, to the best of my knowledge, the following pending U.S and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: (describe and enumerate or state "none" if applicable)	

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived

cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Title: Assistant Professor

Date: 09/29/2017 Place: Boca Raton, FL

I, MATTHEW CAMPAGING ISIZE SUNVISEDR, BAINBRIP, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SIKE, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that:

• I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SIKE

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: 1/ "HE ECURITY ENGENEER, AWS Date: 4/10/18 Place: Et. LAUPERDALE, FL U.S.

I, Amir Jalali, of 777 Glades Rd, EE 307, Boca Raton, FL 33431, Florida Atlantic University, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Supersingular Isogeny Key Encapsulation, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

I do not hold and do not intend to hold any patent or patent application with a which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Supersingular Isogeny Key Encapsulation ; OR (check one or both of the following):		may cover the cryptosystem, reference implementation, or optimized nentations that I have submitted, known as Supersingular Isogeny Key
		to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable)
		I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: (describe and enumerate or state "none" if applicable)

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived

cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Title: Ph.D. Candidate in Computer Science and Engineering

Date: 11/20/2017

Place: Boca Raton, FL

I, BASIL HESS, of HAMMERSTRASSE 28, 8008 ZURICH, SWITZERLAND, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SUPERSINGULAR ISOGENY KEY ENCAPSULATION, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I do not hold and do not intend to hold any patent or patent application with a claim

I further declare that (check one):

implei	which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SUPERSINGULAR ISOGENY KEY ENCAPSULATION; OR (check one or both of the following):		
	to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable);		
	I do hereby declare that, to the best of my knowledge, the following pending U.S and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: (describe and enumerate or state "none" if applicable)		

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3 in the Call For Proposals for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances

made under Sections 2.D.1, 2.D.2 and 2.D.3 of the Call For Proposals, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Title: Cryptography Engineer Date: 24 November 2017 Place: Zurich, Switzerland

I, Brian Koziel of 809 Wildrye Dr, Plano, TX 75074, USA, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Supersingular Isogeny Key Encapsulation, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):



I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Supersingular Isogeny Key Encapsulation; **OR** (check one or both of the following):

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances

made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized

implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Box Isogeny Key Encapsulation (SIKE)

Date: 3/19/2018

Place: Dallas, TX

I, Brian Koziel of 809 Wildrye Dr, Plano, TX 75074, USA, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Supersingular Isogeny Key Encapsulation, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

	I do not hold and do not intend to hold any patent or patent application with a claim
. /	which may cover the cryptosystem, reference implementation, or optimized
	implementations that I have submitted, known as Supersingular Isogeny Key
	Encapsulation; OR (check one or both of the following):

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances

made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Title: Supersingular I segeny Key Encapsulation (SIKE)

Date: 3/14/2018

Place: 3/14/2018

Place: Vallas, TX

2.D.1 Statement by Each Submitter I, Batan A. Lamachea, of 14150 NE 20th 51 STE F-12246, Belevel, wh, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Sine, is the original work of the joint submitters. If further declare that (check one): I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SIKE ; OR (check one or both of the following):

and/or foreign patents:

, may be covered by the following U.S.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

☐ I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: _____

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3 in the Call For Proposals for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3 of the Call For Proposals, including use rights of

the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Pall Tellular

Title: DISTINGUISHED ENGINEER MICROSOFT CORPORATION

Date: 9/29/17

Place: REDMOND, WA

I, Patrick Longa, of One Microsoft Way, Redmond, WA, 98052, USA, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SIKE, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that:

X I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SIKE.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Title: Dr.

Date: February 8, 2018

Place: Redmond, Washington

I, Michael Naehrig, of 23426 NE 29th PL, Sammamish, WA 98074, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Supersingular Isogeny Key Encapsulation – SIKE, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that:

I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SIKE.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Title:

Date:

Place:

Molling Naching Dr. 09/27/2017 Redmond, WA

I, Joost Renes, of Radboud University, Toernooiveld 212, 6525EC Nijmegen, The Netherlands, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Supersingular Isogeny Key Encapsulation, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

X	$m{\chi}^{\prime}$ I do not hold and do not intend to hold any patent or patent application with a cla			
	which may cover the cryptosystem, reference implementation, or optimized			
	implementations that I have submitted, known as Supersingular Isogeny Key			
	Encapsulation; OR (check one or both of the following):			

- □ to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Supersingular Isogeny Key Encapsulation, may be covered by the following U.S. and/or foreign patents: none;
- ☐ I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: none.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized

implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Title:

Title:

Date: 09 | 72 | 20 | 7

Place: REDMOND

I, Vladimir Soukharev, of 20 Frances Crescent, Toronto, ON, M1S 2E5, Canada, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Supersingular isogeny key encapsulation, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Supersingular isogeny key encapsulation; OR (check one or both of the following):		
	to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if	
	applicable); I do hereby declare that, to the best of my knowledge, the following pending U.S and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: (describe and enumerate or state "none" if applicable)	

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I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3 in the Call For Proposals for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

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made under Sections 2.D.1, 2.D.2 and 2.D.3 of the Call For Proposals, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Title: Cryptographer

(Vladimir Soukharev)

Date: December 1, 2017

Place: Toronto, ON, Canada

_David Urbanik_____, of __200 University Ave. W, Waterloo, ON, N2L 3G1, Canada___, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SIKE, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

 I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SIKE.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment.

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3 in the Call For Proposals for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

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Signed:

Signed: DUNER.

Title: Mr.

Date: Sot. Nov. 25th 2017

Place: University of Waterloo, Woterko ON, Canada

I, Vladimir Soukharev, of 20 Frances Crescent, Toronto, ON, M1S 2E5, Canada, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as Supersingular isogeny key encapsulation, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

✓ I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized

I further declare that (check one):

	sulation; OR (check one or both of the following):
	to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem), may be covered by the following U.S.
	and/or foreign patents: (describe and enumerate or state "none" if applicable);
	I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations:

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

(describe and enumerate or state "none" if applicable)

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3 in the Call For Proposals for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances

made under Sections 2.D.1, 2.D.2 and 2.D.3 of the Call For Proposals, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

(Vladimir Soukharev)

Title: Cryptographer

Date: December 1, 2017 Place: Toronto, ON, Canada

2.D.2 Statement by Patent (and Patent Application) Owner(s)

If there are any patents (or patent applications) identified by the submitter, including those held by the submitter, the following statement must be signed by each and every owner, or each owner's authorized representative, of each patent and patent application identified.

0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	REI	DMONY WA 78052	
I, BRIAN A. LAMACCHIA	, of MICROSOFT WAY,	_, am the owner or authorized	
representative of the owner (print patent(s) and/or patent application	t full name, if different than the	signer) of the following	
patent(s) and/or patent application	on(s): US 7499544 Micro	and do hereby commit	
and agree to grant to any interest	ed party on a worldwide basis,	, if the cryptosystem known as	
SIKE	is selected for standardization	on, in consideration of its	
evaluation and selection by NIST, a non-exclusive license for the purpose of implementing the			
standard (check one):			

X	without compensation and under reasonable terms and conditions that are
	demonstrably free of any unfair discrimination, OR

 $\ \square$ under reasonable terms and conditions that are demonstrably free of any unfair discrimination.

I further do hereby commit and agree to license such party on the same basis with respect to any other patent application or patent hereafter granted to me, or owned or controlled by me, that is or may be necessary for the purpose of implementing the standard.

I further do hereby commit and agree that I will include, in any documents transferring ownership of each patent and patent application, provisions to ensure that the commitments and assurances made by me are binding on the transferee and any future transferee.

I further do hereby commit and agree that these commitments and assurances are intended by me to be binding on successors-in-interest of each patent and patent application, regardless of whether such provisions are included in the relevant transfer documents.

I further do hereby grant to the U.S. Government, during the public review and the evaluation process, and during the lifetime of the standard, a nonexclusive, nontransferrable, irrevocable, paid-up worldwide license solely for the purpose of modifying my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability) for incorporation into the standard.

Signed: In a Whole MICROSOFT CORPORATION
Title: DISTINGUISHED ENGINEER MICROSOFT CORPORATION

Date: 9/29/17

Place: REDMOND, WA

2.D.2 Statement by Patent (and Patent Application) Owner(s)

If there are any patents (or patent applications) identified by the submitter, including those held by the submitter, the following statement must be signed by each and every owner, or each owner's authorized representative, of each patent and patent application identified.

I, Mohammed Muraj, of InfoSec Global Inc., am the authorized representative of the owner, InfoSec Global Inc., of the following patent(s) and/or patent application(s): US2018/0323973A1 and CA2984390, and do hereby commit and agree to grant to any interested party on a worldwide basis, if the cryptosystem known as SIKE is selected for standardization, in consideration of its evaluation and selection by NIST, a non-exclusive license for the purpose of implementing the standard (check one):

without compensation and under reasonable terms and conditions that are demonstrably free of any unfair discrimination, **OR**

□ under reasonable terms and conditions that are demonstrably free of any unfair discrimination.

I further do hereby commit and agree to license such party on the same basis with respect to any other patent application or patent hereafter granted to me, or owned or controlled by me, that is or may be necessary for the purpose of implementing the standard.

I further do hereby commit and agree that I will include, in any documents transferring ownership of each patent and patent application, provisions to ensure that the commitments and assurances made by me are binding on the transferee and any future transferee.

I further do hereby commit and agree that these commitments and assurances are intended by me to be binding on successors-in-interest of each patent and patent application, regardless of whether such provisions are included in the relevant transfer documents.

I further do hereby grant to the U.S. Government, during the public review and the evaluation process, and during the lifetime of the standard, a nonexclusive, nontransferrable, irrevocable, paid-up worldwide license solely for the purpose of modifying my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability) for incorporation into the standard.

Signed: L. M. Title: General Counsel
Date: November 19, 2018

Place: Toronto, Ontario, Canada

2.D.3 Statement by Reference/Optimized Implementations' Owner(s) The following must also be included:

I, Brian Koziel, 809 Wildrye Dr, Plano, TX 75074, USA, am the owner or authorized representative of the owner of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or Signed: Drin) Syll

Title: Super singular Isaglay Key Encapsylation (SIKE)

Date: 3/19/2018

Place : 11

Place Dallas, TX

The following must also be included:

I, Amir Jalali, 777 Glades Rd, EE 307, Boca Raton, FL 33431, Florida Atlantic University, am the owner of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed:

Title: Ph.D. Candidate in Computer Science and Engineering

Date: 11/20/2017 Place: Boca Raton, FL

The following must also be included:

I, Reza Azarderakhsh, 777 Glades Rd, EE 314, Boca Raton, FL 33431, Florida Atlantic University, am the owner or authorized representative of the owner (print full name, if different than the signer) of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed: **4** Title: Assistant Professor

Date: 09/29/2017 Place: Boca Raton, FL

The following must also be included:

I, Patrick Longa, One Microsoft Way, Redmond, WA, 98052, USA, am the owner or authorized representative of the owner Microsoft Corporation of the submitted reference implementation and optimized implementations of SIKE and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed:

Title: Dr.

Date: February 08, 2018 Place: Redmond, Washington

The following must also be included:

I, Vladimir Soukharev, of 20 Frances Crescent, Toronto, ON, M1S 2E5, Canada, am the owner or authorized representative of the owner (print full name, if different than the signer) of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed:

Organs

(Vladimir Soukharev)

Title: Cryptographer Date: December 1, 2017 Place: Toronto, ON, Canada

The following must also be included:

I, BASIL HESS, HAMMERSTRASSE 28, 8008 ZURICH, SWITZERLAND, am the owner or authorized representative of the owner (print full name, if different than the signer) of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed:

Title: Cryptography Engineer Date: 24 November 2017 Place: Zurich, Swizerland 2.D.3 Statement by Reference/Optimized Implementations' Owner(s) The following must also be included:

I, Brian Koziel, 809 Wildrye Dr, Plano, TX 75074, USA, am the owner or authorized representative of the owner of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed: Brin JSWW

Title: Supersingular Isogeny Kly Encapsulation (SIKE)

Date: 3/19/2018

Place Dullas, TX

The following must also be included:

I, Vladimir Soukharev, of 20 Frances Crescent, Toronto, ON, M1S 2E5, Canada, am the owner or authorized representative of the owner (print full name, if different than the signer) of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed:

Title: Cryptographer

Date: December 1, 2017 Place: Toronto, ON, Canada (Vladimir Soukharev)

The following must also be included:

I, BASIL HESS, of HAMMERSTRASSE 28, 8008 ZURICH, SWITZERLAND, am the owner or authorized representative of the owner (print full name, if different than the signer) of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed:

Title: Cryptography Engineer Date: 24 November 2017

Place: Zurich, Switzerland

have submitted	ent by Each Submitter (200, University Ave W, Water 100, ON 1) 2L 36-1) C.F. leve iva. of University of With 100/evolution of the do hereby e cryptosystem, reference implementation, or optimized implementations that I d, known as SIKE, is my own original work, or if submitted jointly with riginal work of the joint submitters.
I further decla	re that (check one):
which implen	not hold and do not intend to hold any patent or patent application with a claim may cover the cryptosystem, reference implementation, or optimized mentations that I have submitted, known as; OR (check one or f the following):
•	to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as, may be covered by the following U.S. and/or foreign patents:
•	I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations:
I do hereby ac	knowledge and agree that my submitted cryptosystem will be provided to the

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I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

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made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Generalis Coulos C. I Vereira

Title: Supersingular Isageny Key Encapsulation

Date: April 2nd, 2019

Place: Waterlop, ON, Canada

The following must also be included:

I, Geovandro Carlos Crepaldi Firmino Pereira, Institute for Quantum Computing, 200 University Ave W, Waterloo, ON N2L 3G1, am the owner of the optimized implementation and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed: Geovondro Carlos C. & levens.
Tille: Supersingular Isogeny Key Encapsulation
Date: April 2nd, 2019
Place: Waterloo, ON, Canada

I, Aaron Hutchinson, of Institute for Quantum Computing, 200 University Avenue West, Waterloo, ON, Canada N2L3G1, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SIKE, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

\sim		
V) do not hold and do not intend to hold any patent or pa	tent application with a claim
-	which may cover the cryptosystem, reference implement	ation, or optimized
	implementations that I have submitted, known as SIKE;	OR (check one or both of the
	following):	

* to the best of my knowledge, the practice of the cryptosystem, reference

	implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem), may be covered by the following U.S.		
	and/or foreign patents: (describe and enumerate or state "none" if applicable) ;		
世	I do hereby declare that, to the best of my knowledge, the following pending U.S and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations:		

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

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cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Title:

Date: October 13, 2020 Place: Waterloo, ON

aur Hitel

The following must also be included:

I, Aaron Hutchinson, Institute for Quantum Computing, 200 University Avenue West, Waterloo, ON, Canada N2L3G1, am the owner or authorized representative of the owner (print full name, if different than the signer) of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed: Chen Hullich

Title:

Date: October 5, 2020 Place: Waterloo, ON

I, Joel David Martin, Director General, Digital Technologies Research Centre of the National Research Council of Canada (the NRC) a departmental corporation forming part of the Government of Canada, created by the National Research Council Act (R.S.C. 1985, c. N-15), and an agent of Her Majesty the Queen in Right of Canada, whose head office address is: 1200 Montreal Road, Ottawa, Ontario K1A 0R6, am the authorized representative of the NRC that is the owner of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed:

Name: Jeel David Martin

Title: Director General, Digital Technologies Research Centre, NRC

Date: May 25, 2021 Place: Ottawa, ON