2.D.1 Statement by Each Submitter

I, Jung Hee Cheon, of Seoul National University, 1, Gwanak-ro, Gwanak-gu, 08826 Seoul, Republic of Korea, and of CryptoLab, 1, Gwanak-ro, Gwanak-gu, 08826 Seoul, Republic of Korea, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HAETA, 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 I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HAETA; 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);

- 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).

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: [Signature]

Title: Professor and CEO

Date: 26 May, 2023

Place: Seoul, Republic of Korea
2.D.1 Statement by Each Submitter

I, Hyeongmin Choe, of Seoul National University, 1, Gwanak-ro, Gwanak-gu, 08826 Seoul, Republic of Korea, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HAETAЕ, 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 or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HAETAЕ; 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)_____

- 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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Signed: 

Title: Ph.D. student

Date: 26 May, 2023

Place: Seoul, Republic of Korea
2.D.1 Statement by Each Submitter

I, Julien Devevey, of ENS de Lyon 15 parvis René Descartes BP 7000 69342 Lyon Cedex 07 FRANCE, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HAETA, is my 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 or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HAETA; 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) _____;

☐ 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: [Signature]

Title: PhD Student

Date: 26/05/2023

Place: Lyon
2.D.1 Statement by Each Submitter

I, Prof. Dr.-Ing. Tim Güneysu, of Universitätssstr. 150, 44780 Bochum, GERMANY, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HAETAЕ, 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 or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HAETAЕ; 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) _____;

☐ 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: [Signature]

Title: Prof. Dr.-Ing. Tim Güneysu, Full Professor of Security Engineering, Ruhr-Universität Bochum

Date: 25.05.2023

Place: Bochum, GERMANY
2.0.1 Statement by Each Submitter

I, Dongyeon Hong, of Cryptolab, 1, Gwanak-ro, Gwanak-gu, 08826 Seoul, Republic of Korea, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HAETAE, 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 or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HAETAE; 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) ____;

- 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).

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I do hereby agree to provide the statements required by Sections 2.0.2 and 2.0.3, 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 2.0.1, 2.0.2 and 2.0.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: [Signature]

Title: Engineer

Date: 26 May, 2023

Place: Seoul, Republic of Korea
2.D.1 Statement by Each Submitter

I, Markus Krausz, of Ruhr-University Bochum, Universitätsstr. 150, 44801 Bochum, Germany, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as **HAETA**, 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 or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as **HAETA**; 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) ____ ;
  - 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).

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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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Signed: [Signature]

Title: PhD student

Date: 26.05.2023

Place: Bochum, Germany
2.D.1 Statement by Each Submitter

I, Georg Land, of Ruhr-University Bochum, Universitätsstr. 150, 44801 Bochum, Germany, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as **HAETA**, 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] I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as **HAETA**; 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)____;
  - 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).

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Signed: [Signature]

Title: PhD student

Date: 26.05.2023

Place: Bochum, Germany
2.0.1 Statement by Each Submitter

I, Jumbe Shin, of Cryptolab, 1, Gwanak-ro, Gwanak-gu, 0826 Seoul, Republic of Korea, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HAETAE, 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 or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HAETAE; OR (check one or both of the following):

   o 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) ____;

   o 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).

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I do hereby agree to provide the statements required by Sections 2.0.2 and 2.0.3, 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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Signed: [Signature]

Title: CTO

Date: 26 May, 2023

Place: Seoul, Republic of Korea
2.D.1 Statement by Each Submitter

I, Damien Stehlé, of CryptoLab Research, 55 avenue Marceau 75116 Paris, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as **HAETAE**, 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 or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as **HAETAE**; 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) ____;
  - 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).

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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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Signed: 

Title: Chief scientist

Date: 25.05.2023

Place: Lyon, France
2.D.1 Statement by Each Submitter

I, MinJune Yi, of Seoul National University, 1 Gwanak-ro, Gwanak-gu, Seoul 08826, Korea, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HAETAE, 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 I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HAETAE; 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);

○ 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, 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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Signed: [Signature]

Title: Undergraduate

Date: 31.05.2023

Place: Seoul, Korea
2.D.3 Statement by Reference/Optimized Implementations' Owner(s)

The following must also be included:

I, Julien Devevey, of ENS de Lyon 15 parvis René Descartes BP 7000 69342 Lyon Cedex 07 FRANCE, 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: [Signature]

Title: PhD Student

Date: 25/05/2023

Place: Lyon
2.D.3 Statement by Reference/Optimized Implementations’ Owner(s)

The following must also be included:

I, Prof. Dr.-Ing. Tim Güneysu, Universitätsstr. 150, D-44780 Bochum, GERMANY am the owner or authorized representative of the owner Ruhr-Universität Bochum, GERMANY 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: [Signature]

Title: Prof. Dr.-Ing. Tim Güneysu, Full Professor of Security Engineering, Ruhr-Universität Bochum

Date: 25.05.2023

Place: Bochum, GERMANY
2. D. 3 Statement by Reference/Optimized Implementations’ Owner(s)

The following must also be included:

I, Dongyeon Hong, of Cryptolab, 1, Gwanak-ro, Gwanak-gu, 08826 Seoul, Republic of Korea, 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: [Signature]
Title: Engineer
Date: 26. May, 2023
Place: Seoul, Republic of Korea
2.D.3 Statement by Reference/Optimized Implementations’ Owner(s)

The following must also be included:

I, Markus Krausz, of Ruhr-University Bochum, Universitätsstr. 150, 44801 Bochum, Germany, 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:

Title: PhD student

Date: 26.05.2023

Place: Bochum, Germany
2.D.3 Statement by Reference/Optimized Implementations’ Owner(s)

The following must also be included:

I, Georg Land, of Ruhr-University Bochum, Universitätsstr. 150, 44801 Bochum, Germany, 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:

Title: PhD student

Date: 26.05.2023

Place: Bochum, Germany
2.D.3 Statement by Reference/Optimized Implementations’ Owner(s)

The following must also be included:

I, MinJune Yi, of Seoul National University 1, Gwanak-ro, Gwanak-gu, Seoul 08826, Korea, 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: [Signature]
Title: Undergraduate
Date: 31.05.2023
Place: Seoul, Korea