



FEDERATIVE REPUBLIC OF BRAZIL
HAMILTON MOURA RIBEIRO
TRADUTOR PÚBLICO E INTÉRPRETE COMERCIAL – INGLÊS/PORTUGUÊS
CERTIFIED PUBLIC TRANSLATOR AND INTERPRETER – ENGLISH/PORTUGUESE
REGISTRATION JUCEC TP - 041 CPF/TIN 391.452.123-68 RG/ID No. 2017168610-6

TRANSLATION No. 187/2019 – PAGE 01/05

BOOK No. 31 – PAGE 216/400

I, the undersigned, a sworn Translator in and for this State, registered at the Trade Board of Ceará under # 041, hereby declare to have received a document written in Portuguese for translation into ENGLISH, which I did faithfully, to the best of my ability, as follows:

SIGAA – Integrated Management System of Academic Activities
UFC – Universidade Federal do Ceará / Federal University of Ceará
PROGRAD – Dean's Office for Undergraduate Studies

Avenida da Universidade, 2853 – Benfica – Fortaleza – CE – CEP/Zip Code 60020-181

[TN¹: This heading appears on every page of the original document]

Transcript – Issued on 06/26/2019 at 09:32h

Personal Data

Name: **LUCAS ASSUNÇÃO DE ALMEIDA | Registration No. 286702**

Date of birth: **04/18/1988 | Place of birth: FORTALEZA/CE**

ID No. **2006009046739 | Issued by SSP | Nationality: BRAZILIAN**

Father's name: **EUGENIO AUGUSTO DE ALMEIDA NETO**

Mother's name: **SILVANA VALÉRIA ASSUNÇÃO DE ALMEIDA**

Address: **RUA DRA. SOCORRO AZEVEDO, 140 APT. 103 | Quarter: ENGENHEIRO LUCIANO**

City: **FORTALEZA | State: CE**

Academic Data

Program: **65 – COMPUTER SCIENCE – FORTALEZA – PRESENCE-BASED – BACHELOR'S DEGREE – BACHELOR'S DEGREE IN COMPUTER SCIENCE – DAYTIME**

Focus: -- | Individual IRA/GPA: **8.8396 | General IRA/GPA: 9.215**

Academic Flowchart: **2000.1** Status: **COMPLETED**

Course Accreditation:--

D.O.U./Federal Official Gazette: **DIRECTIVE MEC No. 1.102**

10/25/1990 Normative Act: **10/24/1990**

Initial Academic Year/Term: **2007.1**

Admission by **ENTRANCE EXAMINATION**

Current Academic Term: **10** Deadline for Graduation: **2012.2**

Participation ENADE/National Undergraduate Students Performance Examination:--

Date of Graduation: **12/21/2011 | Final Academic Year/Term: 2011.2**



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REGISTRATION JUCEC TP - 041 CPF/TIN 391.452.123-68 RG/ID No. 2017168610-6

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Egress by **PROGRAM COMPLETION**
Final Paper:--

Attended/Attending Curriculum Components

Term	Code Curriculum Component	Class Hours	Credits	Class	Attend. %	Grade	Status
2007.2	CB0537 LINEAR ALGEBRA I	48	3.00	A	100.00	10.0	AVERAGE PASS
2007.2	CB0661 DISCRETE MATHEMATICS	96	6.00	A	100.00	10.0	AVERAGE PASS
2007.2	e CK0087 THE FUNDAMENTALS OF PROGRAMMING	96	6.00	A	100.00	10.0	AVERAGE PASS
2008.1	CB0515 INTRODUCTION TO MATHEMATICAL LOGIC	96	6.00	A	100.00	7.5	AVERAGE PASS
2008.1	CB0534 DIFFERENTIAL AND INTEGRAL CALCULUS I	96	6.00	A	100.00	9.6	AVERAGE PASS
2008.1	* CK0102 ENTREPRENEURSHIP IN COMPUTING	64	4.00	A	100.00	10.0	AVERAGE PASS
2008.1	CK0120 COMPUTING AND THE SOCIETY	64	4.00	A	100.00	10.0	AVERAGE PASS
2008.1	CK0169 DIGITAL CIRCUITS	64	4.00	B	96.88	9.9	AVERAGE PASS
2008.2	CB0535 DIFFERENTIAL AND INTEGRAL CALCULUS II	96	6.00	E	91.67	8.3	AVERAGE PASS
2008.2	CD0201 GENERAL PHYSICS I	96	6.00	A	95.83	9.2	AVERAGE PASS
2008.2	CK0109 DATA STRUCTURE	96	6.00	A	100.00	9.4	AVERAGE PASS
2008.2	CK0110 PROGRAMMING	32	2.00	B	100.00	10.0	AVERAGE PASS
2008.2	CK0170 DATA TRANSMISSION	64	4.00	B	98.44	9.8	AVERAGE PASS



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Term	Code – Curriculum Component	Credit Hours	Credits	Class	Attend. %	Grade	Status
2009.1	CC0261 INTRODUCTION TO PROBABILITY AND STATISTICS	64	4.00	A	93.75	9.1	AVERAGE PASS
2009.1	CK0111 ALGORITHMS ON GRAPHS	64	4.00	A	100.00	9.5	AVERAGE PASS
2009.1	CK0112 PROGRAMMING TECHNIQUES I	64	4.00	A	90.62	8.5	AVERAGE PASS
2009.1	CK0113 COMPUTER ARCHITECTURE I	64	4.00	A	90.62	9.2	AVERAGE PASS
2009.1	* CK0125 GRAPH THEORY	64	4.00	A	93.75	8.8	AVERAGE PASS
2009.2	CK0019 CONSTRUCTION AND ANALYSIS OF ALGORITHMS	96	6.00	A	100.00	7.3	AVERAGE PASS
2009.2	CK0047 NUMERICAL METHODS I	64	4.00	A	96.88	9.5	AVERAGE PASS
2009.2	CK0114 DATABASE FOUNDATIONS	96	6.00	A	95.83	9.5	AVERAGE PASS
2009.2	CK0115 PROGRAMMING LANGUAGES I	96	6.00	A	87.50	9.0	AVERAGE PASS
2009.2	* PD0050 NEW TECHNOLOGIES AND DISTANCE LEARNING	64	4.00	PD 050 B	100.00	10.0	AVERAGE PASS
2010.1	* CC0263 LINEAR PROGRAMMING	64	4.00	A	84.38	9.5	AVERAGE PASS
2010.1	CK0048 NUMERICAL METHODS II	64	4.00	A	87.50	9.2	AVERAGE PASS
2010.1	CK0061 COMPUTER NETWORK	96	6.00	A	97.92	9.1	AVERAGE PASS
2010.1	CK0117 DATABASE MANAGEMENT SYSTEMS	96	6.00	A	93.75	8.7	AVERAGE PASS



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Term	Code – Curriculum Component	Credit Hours	Credits	Class	Attend. %	Grade	Status
2010.1	CK0119 SOFTWARE ENGINEERING	64	4.00	A	93.75	8.87	AVERAGE PASS
2010.2	CK0031 ARTIFICIAL INTELLIGENCE	96	6.00	A	100.00	9.63	AVERAGE PASS
2010.2	CK0069 OPERATIONAL SYSTEMS I	96	6.00	A	100.00	9.35	AVERAGE PASS
2010.2	CK0116 SYSTEMS ANALYSIS AND DESIGN	96	6.00	A	95.83	8.0	AVERAGE PASS
2010.2	CK0118 AUTOMATA AND FORMAL LANGUAGES	64	4.00	A	100.00	9.0	AVERAGE PASS
2010.2	* CK0136 MATHEMATICAL PROGRAMMING	64	4.00	A	84.38	8.7	AVERAGE PASS
2011.1	CK0017 COMPILER CONSTRUCTION I	96	6.00	A	87.50	8.4	AVERAGE PASS
2011.1	CK0101 THEORY OF COMPUTING	96	6.00	A	91.66	7.1	AVERAGE PASS
2011.1	* CK0129 PROGRAMMING TECHNIQUES II	64	4.00	A	87.50	8.5	AVERAGE PASS
2011.1	# SMD0003 DIGITAL IMAGES EDITING	64	4.00	C	100.00	8.5	AVERAGE PASS
2011.2	* CB0507 ALGEBRAIC STRUCTURES	96	--	01A	87.50	5.0	PASS
2011.2	CK0090 COMPUTER GRAPHICS I	64	--	01	92.18	8.6	AVERAGE PASS
2011.2	* ED0049 BUSINESS ADMINISTRATION	96	--	01A	87.50	9.0	AVERAGE PASS
2011.2	* ED0056 INTRODUCTION TO ADMINISTRATION	96	--	01A	91.66	10.0	AVERAGE PASS
2011.2	* PB0074 COMPUTING IN EDUCATION	64	--	04	81.25	9.5	AVERAGE PASS



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Caption:

*: Optional Component	e: Component Equivalent to Compulsory	&: Component Equivalent to Optional	#: Free Elective Component	@: Compulsory Activity	§: Optional Activity
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Total Credit Hours	Required	Completed	Pending
	3280	3280	0

Cancellations and Institutional Enrollments

Cancellations: No Cancellations

Institutional Enrollment: 2007.1(APR/2007 – JUL/2007)

Attention, now the transcript has an automatic verification for authenticity and consistency.
Please, refer to the footnotes.

[Footnote] To verify the authenticity of this document refer to <http://www.si3.ufc.br/sigaa/documentos>, and enter the matrícula/registration number, data de emissão/date of issue, and código de verificação/verification code: b7

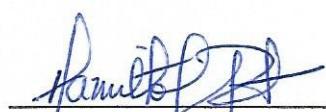
[TN²: This footnote appears on both pages of the original document.]

The original document contained nothing further. I certify that the above is a true, faithful and unabridged rendering into English of the original Portuguese version. In witness whereof, I set my hand and seal, on the date and in the city mentioned below.

Fortaleza, April 17, 2019.
Fees R\$ 150.00 (BRL)

HAMILTON MOURA RIBEIRO
TRADUTOR PÚBLICO E INTÉRPRETE COMERCIAL
CERTIFIED PUBLIC TRANSLATOR AND INTERPRETER
ENGLISH/PORTUGUESE – REGISTRATION JUCEC TP-041
TRANSLATION No. 187/2019
BOOK No. 31
PAGES No. 216-220

HM


Hamilton Moura Ribeiro
Certified Public Translator and Interpreter - English/Portuguese
Registration JUCEC TP - 041
CPF/TIN: 391.452.123-68





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TRANSLATION No. 188/2019 – PAGE 01/04

BOOK No. 31 – PAGE 221/400

I, the undersigned, a sworn Translator in and for this State, registered at the Trade Board of Ceará under # 041, hereby DECLARE to have received a document written in Portuguese for the translation into ENGLISH, which I did faithfully, to the best of my ability, as follows:

**Universidade Federal de Minas Gerais | Federal University of Minas Gerais
Graduate Studies – Stricto Sensu
Transcript**

Issued on 04/09/2019

Student's name: LUCAS ASSUNÇÃO DE ALMEIDA

Parents' names:

EUGENIO AUGUSTO DE ALMEIDA NETO
SILVANA VALERIA ASSUNÇÃO DE ALMEIDA

Program:

3451 – COMPUTER SCIENCE

Level: MASTER'S DEGREE	Created on: 06/28/1974	Resolution nº -----
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Area of Concentration
COMPUTER SCIENCE

Line of Research

Advisor

THIAGO FERREIRA DE NORONHA

Coadvisor:--

Registration nº 2013656763	Admission by SELECTION EXAM		Initial Date: 2013/1 03/04/2013					
Foreign Language Examination: 12/14/2013 – ENGLISH		CPF/Individual Taxpayer Identification No. 03200338300						
ID No. 2006009046739	Issued by Department of Public Safety		State CE					
Military Doc 250444439310	Military Reg. 00	Constituency	Voter's Card No. 69374070744	Zone 112	Station Poll 165			
Date of Birth 04/18/1988	City of Birth FORTALEZA		State CE					
Country of Birth BRAZIL	Nationality BRAZILIAN							
Undergraduate Studies BACHELOR'S DEGREE COMPUTER SCIENCE								



FEDERATIVE REPUBLIC OF BRAZIL
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REGISTRATION JUCEC TP – 041 CPF/TIN 391.452.123-68 RG/ID 2017168610-6

TRANSLATION No. 188/2019 – PAGE 02/04

BOOK No. 31 – PAGE 222/400

Institution UNIVERSIDADE FEDERAL DO CEARÁ FEDERAL UNIVERSITY OF CEARÁ	Final Term 2011/2
City/Country FORTALEZA BRAZIL	State: CE

Completed Academic Activities										
Year/ Term	Description	Class	Type	CR	CH	Att	Gr.	Concept Gr.	Final Status	
2013/1	DIP DCC842 – DATA BASE	PG	OP	04	60	S	98.0	A	A	
2013/1	DIP DCC865 – ALGORITHM DESIGN AND ANALYSIS	PG	OB	04	60	S	85.0	B	A	
2013/2	DIP DCC831 – SPECIAL TOPICS IN COMPUTER SCIENCE: Natural Computing	PG1	OP	04	60	S	90.0	A	A	
2013/2	DIP EEE910 – MULTI- OBJECTIVE OPTIMIZATION	A	EL	04	60	S	90.0	A	A	
2014/1	DIP DCC893 – TOPICS ON OPTIMIZATION: Linear and Nonlinear Optimization	PG	OP	04	60	S	89.0	B	A	
2014/1	DIP DCC904 – INTERNSHIP IN TEACHING I	PG	OP	02	30	S	100.0	A	A	
2014/2	ETF GER000 – PREPARATION OF DISSERTATION	-	-	-	-	-	-	-	-	
2015/1	ETF GER000 – PREPARATION OF DISSERTATION	-	-	-	-	-	-	-	-	
2015/1	TFP CCO004 – DISSERTATION DEFENSE	-	OB	-	-	-	-	-	A	

** Activities used as origin of exemption

Transfer Credits				
Year / Term	Credits	Origin (Type, Year/Term, Academic Activity, Class)	Pass Date	
2014/2	04	AE – 2013/2 EST EEE910	12/05/2014	

Address: Rua Major Facundo, 1637 – Centro – CEP 60.025-101 – Fortaleza/CE
E-mail: hamilton.moura@gmail.com – Phone No. +55 85 3251.1907 – Cell Phone No +55 85 98875.9526



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Studies				
Year/Term	Code/Place/Description	CH	Cr.	Grade
2013/2	EEE910 PGEE Multi-objective Optimization	60	04	90

Final Assignment: DISSERTATION DEFENSE

Final Result: PASS Defense Date: 03/09/2015

Dissertation Title: Optimization Algorithms For The Restricted Robust Shortest Path Problem

Board of Examiners:

Prof. Thiago Ferreira de Noronha – Advisor (DCC – UFMG)

Prof. Andrea Cynthia Santos (Université de Technologie de Troyes)

Prof. Geraldo Robson Mateus (DCC – UFMG)

Prof. Rafael Castro de Andrade (DEMA – UFC)

Prof. Ricardo Saraiva de Camargo (DEP – UFMG)

Program Completion

Required Credits: 20 | Completed Credits: 22 | Transferred Credits: 04

Credits Used for Program Completion: 20

Correspondence Class Hours/Credit: 15 hours / 01 credit

Graduated: YES

Academic Events

Term	Decision Date	Event	Description
2015/1	03/09/2015	Program Completion	Completed Graduate Studies

Belo Horizonte, April 09, 2019.

Illegible signature

University Registrar

Illegible signature

Coordinator

Prof. Clodoveu Augusto Davis Júnior
Coordinator – Graduate Program in Computer
Science – UFMG – Directive No. 7.389/2018

Caption:

NAT = Type (OP = Optional, OB = Compulsory,

EL = Elective, (*) = Extracurricular)

CH = Class Hours | CR = Credits

TUR = Class

FR = Attendance (S = Sufficient, I = Insufficient)

SF = Final Status (A = Pass, R = Fail,

T = Suspended by Student, D = Exempted)

Type of Exemption Origin or Transfer Credits

AE = Transfer Credits

AM = Credits Reapplied

EQ = Equivalence



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This document is only valid with the stamp and signature of the program coordinator or the DRCA/Dean, in all pages.	(Until 07/30/1990) A – Excellent (90 to 100) B – Very good (75 to 89) C – Satisfactory (60 a 74) D – Fail (40 a 59) E – No Achievement (0 to 39)
	(After 07/30/1990) A – Excellent (90 to 100) B – Very good (80 to 89) C – Good (70 to 79) D – Satisfactory (60 to 69) E – Weak (40 to 59) F – Fail (0 to 39)

[TN: this information appears on both pages of the original document.]

The original document contained nothing further. I certify that the above is a true, faithful and unabridged rendering into English of the original Portuguese version. In witness whereof, I set my hand and seal, on the date and in the city mentioned below.

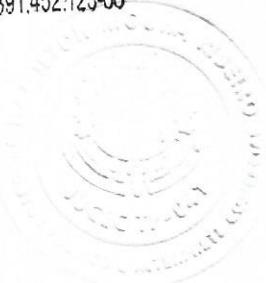
Fortaleza, April 17, 2019.

Fees: R\$ 100.00 (BRL)

HAMILTON MOURA RIBEIRO
TRADUTOR PÚBLICO E INTÉRPRETE COMERCIAL
CERTIFIED PUBLIC TRANSLATOR AND INTERPRETER
ENGLISH/PORTUGUESE – REGISTRATION JUCEC TP - 041
TRANSLATION No. 188/2019
BOOK No. 31
PAGES No. 224 - 224

MR


Hamilton Moura Ribeiro
Certified Public Translator and Interpreter - English/Portuguese
Registration JUCEC TP - 041
CPF/TIN: 391.452.123-68





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TRANSLATION No. 189/2019 – PAGE 01/04

BOOK No. 31 – PAGE 225/400

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Graduate Studies – Stricto Sensu
Transcript**

Issued on 04/08/2019

Student's name: LUCAS ASSUNÇÃO DE ALMEIDA

Parents' names:

EUGENIO AUGUSTO DE ALMEIDA NETO
SILVANA VALERIA ASSUNÇÃO DE ALMEIDA

Program:

1485 – PRODUCTION ENGINEERING

Level: DOCTOR'S DEGREE	Created on: 03/24/2009	Resolution nº 22009
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Area of Concentration

OPERATIONAL RESEARCH AND INTERVENTION IN SOCIOTECHNICAL SYSTEMS.

Line of Research

04 - OPTIMIZATION MODELS AND ALGORITHMS FOR NETWORK AND PRODUCTION SYSTEMS

Advisor

GERALDO ROBSON MATEUS

Coadvisor:--

Registration nº 2015739909	Admission by SELECTION EXAM		Initial Date: 2015/2 08/24/2015				
Foreign Language Examination: 11/10/2016 – ENGLISH			CPF/Individual Taxpayer Identification No. 03200338300				
ID No. 2006009046739	Issued by Department of Public Safety		State CE				
Military Doc 250444439310	Military Reg. 00	Constituency	Voter's Card No. 69374070744	Zone 112	Station Poll 165		
Date of Birth 04/18/1988	City of Birth FORTALEZA			State CE			
Country of Birth BRAZIL	Nationality BRAZILIAN						
Undergraduate Studies BACHELOR'S DEGREE COMPUTER SCIENCE							

Address: Rua Major Facundo, 1637 – Centro – CEP 60.025-101 – Fortaleza/CE
E-mail: hamilton.moura@gmail.com – Phone No. +55 85 3251.1907 – Cell Phone No +55 85 98875.9526



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TRANSLATION No. 189/2019 – PAGE 02/04

BOOK No. 31 – PAGE 226/400

Institution UNIVERSIDADE FEDERAL DO CEARÁ FEDERAL UNIVERSITY OF CEARÁ	Final Term 2011/2
City/Country FORTALEZA BRAZIL	State: CE

Completed Academic Activities										
Year/ Term	Description	Class	Type	CR	CH	Att	Gr.	Concept Gr.	Final Status	
2015/2	DIP DCC882 – COMBINATORIAL OPTIMIZATION	PG	EL	04	60	S	93.0	A	A	
2016/1	DIP – DCC849 – GRAPH THEORY	PG	EL	04	60	S	86.0	B	A	
2016/2	ETF GER000 – PREPARATION OF THESIS	-	-	-	-	-	-	-	-	
2017/1	DIP EPD864 – PEDAGOGICAL PRACTICE II	L	OB	2	30	S	93.0	A	A	
2017/2	ETF GER000 - PREPARATION OF THESIS	-	-	-	-	-	-	-	-	
2018/1	DIP EPD860 – RESEARCH SEMINARS: Discussions of methodological questions and technical problems of more immediate interest for students during the preparations of dissertation or thesis.	L	OP	1	15	S	95.0	A	A	
2018/1	EQP EPR005 – THESIS PROPOSAL	-	OB	-	-	-	-	-	A	
2018/2	ETF GER000 – PREPARATION OF THESIS	-	-	-	-	-	-	-	-	
2019/1	ETF GER000 – PREPARATION OF THESIS	-	-	-	-	-	-	-	-	

** Activities used as origin of exemption





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TRANSLATION No. 189/2019 – PAGE 03/04

BOOK No. 31 – PAGE 227/400

Exempted Academic Activities

Year / Term	Description	Type	CR	CH	Origin (Type, Year/Term, Academic Activity, Class)
2016/1	DIP EPD885 – LINEAR AND CONVEX OPTIMIZATION	OP	4	60	AM – 2014/1 EST DCC893

Transfer Credits

Year / Term	Credits	Origin (Type, Year/Term, Academic Activity, Class)	Pass Date
2016/1	07	AM – 2013/1 EST DCC865 AM – 2013/2 EST EEE910	06/03/2016

Studies

Year/Term	Code/Place/Description	CH	Cr.	Grade
2013/1	DCC865 Graduate Studies Program in Computer Science Algorithms Analysis and Design	60	04	85
2013/2	EEE910 Graduate Studies Program in Computer Science Multi-objective Optimization	60	04	90
2014/1	DCC893 Graduate Studies Program in Computer Science Topics on Optimization: Linear and Nonlinear Optimization	60	04	89

Dissertation Proposal

Final Result: PASS

Dissertation Proposal Date: 03/22/2018

Program Completion

Required Credits: 22 | Completed Credits: 15 | Transferred/Exempted Credits: 07

Credits Used for Program Completion: 22

Correspondence Class Hours/Credit: 15 hours / 01 credit

Graduated: NO

Belo Horizonte, April 10, 2019.

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University Registrar

Marcos Rodrigues Leão S. M. Aguiar

Illegible signature

Coordinator

Prof. Martín Gómez Ravetti

Subcoordinator – Graduate Program in
Production Engineering – UFMG

Caption:

NAT = Type (OP = Optional, OB = Compulsory,

EL = Elective, (*) = Extracurricular)

CH = Class Hours | CR = Credits

TUR = Class

FR = Attendance (S = Sufficient, I = Insufficient)

SF = Final Status (A = Pass, R = Fail,

T = Suspended by Student, D = Exempted)



FEDERATIVE REPUBLIC OF BRAZIL
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Reg. 21752-2	Type of Exemption Origin or Transfer Credits AE = Transfer Credits AM = Credits Reapplied EQ = Equivalence (Until 07/30/1990) A – Excellent (90 to 100) B – Very good (75 to 89) C – Satisfactory (60 a 74) D – Fail (40 a 59) E – No Achievement (0 to 39) (After 07/30/1990) A – Excellent (90 to 100) B – Very good (80 to 89) C – Good (70 to 79) D – Satisfactory (60 to 69) E – Weak (40 to 59) F – Fail (0 to 39)
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[TN: this information appears on both pages of the original document.]

The original document contained nothing further. I certify that the above is a true, faithful and unabridged rendering into English of the original Portuguese version. In witness whereof, I set my hand and seal, on the date and in the city mentioned below.

Fortaleza, April 18, 2019.

Fees: R\$ 100.00 (BRL)

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