

Luca Di Stasio

Namn/Name

19880419-3376

Personnummer/ Personal identity number

Har den 13 december 2019 uppfyllt kraven för Teknologie doktorsexamen, ämne: Polymera konstruktionsmaterial på forskarnivå, 240 högskolepoäng, i enlighet med bestämmelserna i högskoleförordningen SFS 1993:100 med ändring 2006:1053 samt lokala bestämmelser.

Has 13 december 2019 on third cycle fulfilled the degree requirements for the Degree of Doctor of Philosophy (PhD), Subject: Polymeric Composite Materials 240 credits, in accordance with the regulations governing Swedish Higher Education SFS 1993:100 and the amendment 2006:1053 and internal rules and regulations.

Kurs Course	Högskolepoäng Credits	Datum Date
Rymdmaterial <i>Aerospace Materials</i>	9,0	2018-12-11
Kompositmaterial <i>Composite Materials</i>	9,0	2018-12-11
FEM i tekniska tillämpningar <i>FEM in Engineering Problems</i>	9,0	2018-12-11
Avhandlingspoäng, 181211 <i>Licentiate Thesis, 181211</i>	40,0	2018-12-11
Fiberkompositernas Mekanik <i>Mechanics of Fiber Composites</i>	7,5	2018-12-11
Projektfinansiering <i>Research Funding</i>	3,0	2018-12-11
Summer School DocMASE, Luleå 2016 <i>Summer School DocMASE, Luleå 2016</i>	2,0	2018-12-11
Summer School DocMASE, Luleå 2017 <i>Summer School DocMASE, Luleå 2017</i>	2,0	2018-12-11
Kohesiva och kontaktelement <i>Cohesive and Contact Elements</i>	7,5	2019-02-11
Experimentell mekanik <i>Experimental Mechanics</i>	9,0	2019-02-11
Brottmechanik <i>Fracture Mechanics</i>	9,0	2019-02-11
Avhandlingspoäng <i>Licentiate ThesisDoctoral</i>	30,0	2019-03-29
Behörighetsgivande högskolepedagogisk kurs <i>Qualifying Course for University Teachers</i>	7,5	2019-05-29
Avhandlingspoäng <i>Doctoral Dissertation</i>	45,5	2019-09-04
Avhandlingspoäng <i>Doctoral Dissertation</i>	50,0	2019-09-25
Doktorsavhandling <i>Doctoral thesis</i>		2019-12-13

Kurs Course	Högskolepoäng Credits	Datum Date
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Avhandling
Doctoral dissertation

Inverkan av mikrostruktur på sprickutveckling mellan fiber och matris i fiberkompositer under dragbelastning.
Influence of Microstructure on Debonding at the Fiber/Matrix Interface in Fiber-Reinforced Polymers under Tensile Loading.

Luleå den 18 december 2019 / 18 December 2019



Catarina Forsberg
Examenshandläggare
Degree Evaluation Officer

För kurs på forskarnivå ges endast betyget Godkänd.
The only grade awarded for course on the third cycle is Pass.

60 högskolepoäng motsvarar ett läsårs heltidsstudier.
60 credits are equivalent to one academic year of full-time studies.



Degree certificate

we hereby certify that:

Mr **DI STASIO LUCA** born in CERNUSCO SUL NAVIGLIO (MI) on 19/04/1988, has gained at this Politecnico on 03/10/2013 the laurea magistrale (equivalent to Master of Science) in

SPACE ENGINEERING

(D.M. 270/04 - class LM-20 of Laurea Magistrale in Aerospace and aeronautical engineering)

Score is 110/110.

We certify, moreover, that the same has passed the following evaluation tests with the result, expressed in thirtieths, indicated at the side; the value of each is given in credits (CFU/ECTS) and the corresponding scientific-disciplinary sector (SSD) is indicated:

	Description	SSD	Cfu/ECTS SSD	Cfu/ECTS	Score	Semester	Exam date
	AEROSPACE STRUCTURES	ING-IND/04	10.0	10.00	29	1	10/02/2011
	AEROTHERMODYNAMICS	ING-IND/06	10.0	10.00	30	1	17/02/2011
	ORBITAL MECHANICS	ING-IND/03	10.0	10.00	30	1	23/02/2011
	FUNDAMENTALS OF THERMOCHEMICAL PROPULSION	ING-IND/07	10.0	10.00	28	2	25/07/2011
	COMMUNICATIONS SKILLS	ING-IND/15	2.0	2.00	APPROVED	2	20/09/2011
U	MATHEMATICAL METHODS FOR ENGINEERS	MAT/05	10.0	10.00	APPROVED	1	14/07/2012
U	SPACE ENGINEERING DESIGN SYNTHESIS	ING-IND/05	6.0	6.00	APPROVED	2	14/07/2012
U	SPACE SYSTEMS DESIGN	ING-IND/03	6.0	6.00	APPROVED	2	14/07/2012
U	SPACECRAFT ATTITUDE DYNAMICS AND CONTROL	ING-IND/05	8.0	8.00	APPROVED	1	14/07/2012
U	AEROSPACE TECHNOLOGIES AND MATERIALS II	ING-IND/04	4.0	8.00	APPROVED	1	14/07/2012
		ING-IND/22	4.0				
U	TELECOMMUNICATION SYSTEMS	ING-INF/03	6.0	6.00	APPROVED	1	14/07/2012
	DYNAMICS AND CONTROL OF AEROSPACE STRUCTURES WITH FUNDAMENTALS OF AEROELASTICITY	ING-IND/04	10.0	10.00	29	2	28/09/2012
	HEAT TRANSFER AND THERMAL ANALYSIS	ING-IND/10	6.0	6.00	25	2	07/02/2013
	GRADUATION THESIS AND FINAL WORK			20.00	APPROVED	1	17/09/2013

Legend

U	exams taken within an International mobility programme	(6)
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The weighted average, calculated on the evaluation tests passed, excluding exams as extra, is 28.75/30 (105.42/110).

Stamp duty paid using the virtual system by Authorization of the Ministry of Finance no. DT2/10/101212/00 dated 17.11.2000



AREA SERVIZI AGLI STUDENTI
E AI DOTTORANDI

ID no. 765795

Prot. 1082/230

Milano, 03/12/2014 (dd/mm/yyyy)

Il Dirigente dell'Area Servizi agli Studenti e ai Dottorandi
Assunta Marrese

The above handwritten signature is replaced with a printed signature of the responsible person according to Article 3, paragraph 2 of Legislative Decree no. 39 dated 12th February 1993.

The officer in charge CONFALONIERI ALESSANDRA

According to Article 15 of Law no. 183 dated 12th November 2011, the present certificate cannot be issued for Public Administration Offices or Private Operators of public services.

This document is valid abroad only upon legalization, if necessary.

The data reported have been extracted from the computerized archive of Politecnico di Milano according to Legislative Decree no. 39 dated 12th February 1993.

POLITECNICO DI MILANO



AREA SERVIZI AGLI STUDENTI E AI DOTTORANDI
Servizio Segreterie Studenti
Dott.ssa Alessandra Confalonieri

Alessandra Confalonieri

DREXEL UNIVERSITY - Office of the University Registrar

Student No: 12505124 CENTER CITY HAHNEMANN CAMPUS • MAIL STOP 445 • 245 N. 15TH ST., PHILADELPHIA, PA 19102-1192
DREXEL UNIVERSITY • DREXEL UNIVERSITY



Record of: Luca Di Stasio
Current Name: Luca Di Stasio
Bruggerweg 17
Zurich,
8037
20063 Cernusco Sul N.
ITALY

Course Level: Graduate Quarter
Only Admit: Fall Quarter 11-12

Current Program
MS in Mechanical Engineering
College: College of Engineering
Major: Mechanical Engineering

Degrees Awarded MS in Mechanical Engineering 16-JUN-2012
Major: Mechanical Engineering

SUBJ NO. COURSE TITLE CRED GRD PTS R GPA-Hrs: 9.00 Qpts: 9.00 GPA: 4.00

TRANSFER CREDIT ACCEPTED BY THE INSTITUTION:

2011 Politecnico Di Milano

MEM 699 Independent Study and Research 6.00 A
MEM 800 Special Topics Mech Engr 3.00 A
Ehrs: 9.00 GPA-Hrs: 9.00 Qpts: 9.00 GPA: 4.00

INSTITUTION CREDIT: DREXEL UNIVERSITY

Fall Quarter 11-12 DREXEL UNIVERSITY
Mechanical Engineering
MEM 591 Applied Engr Analy Methods I 3.00 A+
MEM 633 Robust Control Systems I 3.00 A+
MEM 666 Advanced Dynamics I 3.00 A+
MEM 684 Mechanics Of Bio Tissues 3.00 A+
Ehrs: 12.00 GPA-Hrs: 12.00 Qpts: 4.80 GPA: 4.00

Good Standing

Winter Quarter 11-12 DREXEL UNIVERSITY
Mechanical Engineering
MEM 592 Applied Engr Analy Methods II 3.00 A+
MEM 634 Robust Control Systems II 3.00 A+
***** CONTINUED ON NEXT COLUMN *****

Good Standing

Spring Quarter 11-12

Mechanical Engineering
MEM 593 Applied Engr Analy Methods III 3.00 A+
MEM 699 Design of nano-resonators 3.00 A+
ST:Applied Robust Control 3.00 A+
Ehrs: 12.00 GPA-Hrs: 12.00 Qpts: 4.80 GPA: 4.00

Good Standing

***** TOTALS *****
TOTAL INSTITUTION 36.00 36.00 144.00 GPA: 4.00
TOTAL TRANSFER 9.00 9.00 36.00 4.00
***** OVERALL *****
***** END OF TRANSCRIPT *****

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Date Issued: 02-DEC-2014

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TRANSCRIPT EXPLANATION

GENERAL INFORMATION

Drexel University was originally named Drexel Institute of Art, Science and Industry. In 1936 it became Drexel Institute of Technology. The Institute was formally renamed Drexel University during the 1969-70 academic year.

ACCREDITATION

Drexel University is accredited by the Commonwealth of Pennsylvania and by the Middle States Association of Colleges and Schools.

COLLEGES AND SCHOOLS

Drexel University consists of eight colleges and four schools – The Antoinette Westphal College of Media Arts and Design; The College of Arts and Sciences; The Bennett S. LeBow College of Business; The College of Engineering; The Goodwin College of Professional Studies; The College of Information Science and Technology; The Earle Mack School of Law; The College of Medicine (has its own transcript and legend); The College of Nursing and Health Professions; The School of Biomedical Engineering, Science and Health Systems; The School of Education and The School of Public Health

DREXEL COOPERATIVE EDUCATION PROGRAM- Undergraduate Full-time Students

The Drexel Cooperative Education Program enables the student to alternate employment with coursework. Under this plan, the student attends the University for the entire freshman year. Then, beginning their second year in accordance with their program of study/major, the student alternates periods of full-time classroom studies and full-time employment with Drexel University approved employers. Normally, students are placed in a job for a six-month period (two quarters) of employment alternating with two quarters of classroom study. This program is mandatory except for the non-co-op programs. Students earn Drexel Cooperative Units (DCU) by successfully completing Cooperative Education coursework as well as the employment period which further entails written reports that evaluate/measure their work experiences.

TRANSCRIPT FORMAT

Current Format - This transcript is an officially sealed document that is printed on light blue security paper and signed by the University Registrar. A raised seal or tricolor stamp is not used nor is it required. When photocopied, the word void will appear. A black and white document is not an original and should not be accepted as an official institutional document. The transcript is produced by the Banner student system which the University implemented in Summer Quarter 1998-99. The student is identified by an eight-digit University ID number, followed by program of study information and finally information pertaining to degrees awarded. If there are changes to majors/programs of study or cooperative work assignments, they will appear during appropriate terms throughout the body of the transcript. Grade point averages (term and cumulative) are displayed for each term following course information. Academic actions (Dean's List, Probation and dismissal) will appear on a separate line at the end of each term's work, after the grade point average. Withdrawal history will appear under the term entry of the term in which the student withdrew. The cumulative grade point average information will be listed at the end of the transcript under the header named "Transcript Totals".

Old Format – A transcript produced under the old format is a copy of the original document on file in the Office of the University Registrar generated from an original scanned document. Cumulative grade point average data for an undergraduate full-time student is posted only once a year on the transcript copy. All changes of major are listed at the top of the transcript along with withdrawal history. Cooperative work assignments appear under the term that the student is scheduled for a period of employment and Probation/Dean's List appear across the bottom of the transcript.

Combined Format – A copy of the archived coursework will be attached to the current formal style transcript for those students who started prior to 1979 and continued their education past 1979.

ACADEMIC YEAR & CREDIT HOUR EQUIVALENT

The Drexel University academic year is based on four equal terms, known as quarters, which consist of ten weeks of class and one week of final exams. In order to convert quarter credit hours to equivalent semester credit hours, multiply the number of quarter credits by two-thirds. If you want to convert semester credit hours to equivalent quarter credit hours, multiply by three-halves or 1.5.

COURSE NUMBERING SYSTEM

Effective Fall term of 1992-93, Drexel University converted to a more definitive course numbering system. The numbering system defined course levels as noted below:

<u>Undergraduate</u>	<u>Graduate</u>
001 - 099 Specialty Courses	500 - 999
100 - 299 Lower Division Courses	
300 - 499 Upper Division Courses	

Courses taken for Honors credit will have a comment below the course entry that indicates "Course Taken for Honors Credit".

TO TEST FOR AUTHENTICITY: Translucent globe icons **MUST** be visible from both sides when held toward a light source. The face of this transcript is printed on blue SCRIP-SAFE® paper with the name of the institution appearing in white type over the face of the entire document.

ADDITIONAL TESTS: When photocopied, a latent security statement containing the institutional name and the words VOID VOID VOID appear over the face of the entire document. When this paper is touched by fresh liquid bleach, an authentic document will stain brown. A black and white or color copy of this document is not an original and should not be accepted as an official institutional document. This document cannot be released to a third party without the written consent of the student. This is in accordance with the Family Educational Rights and Privacy Act of 1974. If you have any questions about this document, please contact our office. ALTERATION OF THIS DOCUMENT MAY BE A CRIMINAL OFFENSE!

(New +/- Grade Scale- Effective Fall 2006)

<u>Grade</u>		<u>Grade Point Value</u>
A +		4.0
A		4.0
A -		3.67
B +		3.33
B		3.00
B -		2.67
C +		2.33
C		2.00
C -		1.67
D +	Passing	1.33
D	Passing	1.0
F	Failure	0
AUD	Audit	0
CR	Credit	0
NCR	No Credit	0
DCU	Drexel Co-Operative Unit	0
EX	Exemption (Course previously taken)	0
NCU	Failed Work Term	0
P	Pass (Discontinued April 1986)	0
S	Satisfactory	0
T	Transfer credit awarded	0
U	Unsatisfactory	0
+	Courses within a block	0
W	Withdrawal	0
WP	Withdrawn Passing (Discontinued October 1975)	0
WF	Withdrawn Failing (Discontinued October 1975)	0

<<Temporary Grades>>

INC	Incomplete	0
	Incomplete Contract (Discontinued September 1988)	0
IF	Failure (no grade reported on an Incomplete Contract)	0
INP	In Progress	0
ABS	Absent from Final	0
NGR	No Grade Reported	0
NR	No Grade Reported	0
ZF	No Grade Reported (Discontinued September 1998)	0
E	Conditional Pass (Discontinued September 1973)	0

<< A temporary grade (except NGR) may be assigned at the discretion of the instructor who believes additional time is required to complete the course requirements.

CALCULATING GRADE POINT AVERAGE (based on 4.0 scale)

Add the credit hour value of all courses (GPA hours) in which a student receives a grade of A+, A-, A, B, ..., F and divide the results into the total quality points (course grade points multiplied by course credits). This can be calculated on a term and cumulative basis. All courses taken while an Undergraduate are included in the undergraduate cumulative GPA.

Cumulative GPA Calculation for Repeated Courses (Policy prior to Fall 1999)

An undergraduate student has the option to repeat a course (up to five times) in which he/she was initially enrolled beginning with the Fall 1992-93 term and ending with the Summer 1998-99 term. The term GPA calculation remains the same; however, the cumulative GPA is calculated as follows: a) only the grade from the most recent enrollment will count in the cumulative GPA if the grade from the most recent enrollment is the same or better than the original grade and b) both grades will be calculated in the cumulative GPA if the grade from the most recent enrollment is lower than the original grade.

Cumulative GPA Calculation for Repeated Courses (Policy Effective Fall 2001)

Courses with an Indicator of "I" in the R Column on the transcript will be included in the term and cumulative credits earned and GPAs; courses with an "E" in the R column will be excluded from term and cumulative GPAs but retained in term and cumulative credits attempted; courses with an "A" in the R column will be excluded from term and cumulative credits earned, but retained in term and cumulative credits attempted and calculated in the term and cumulative GPA's.

AREA SERVIZI AGLI STUDENTI
E AI DOTTORANDI

Degree certificate

we hereby certify that:

Mr DI STASIO LUCA born in CERNUSCO SUL NAVIGLIO (MI) on 19/04/1988, has gained at this Politecnico on 22/09/2010 the laurea (equivalent to Bachelor of Science) in

AEROSPACE ENGINEERING

(D.M. 270/04 - class L-9 of degrees in Industrial Engineering)

Score is 110/110.

We certify, moreover, that the same has passed the following evaluation tests with the result, expressed in thirtieths, indicated at the side; the value of each is given in credits (CFU/ECTS) and the corresponding scientific-disciplinary sector (SSD) is indicated:

Description	SSD	Cfu/ECTS SSD	Cfu/ECTS	Score	Semester	Exam date
CHEMISTRY A	CHIM/07	5.0	5.00	30 CUM LAUDE	1	11/02/2008
FUNDAMENTALS OF AEROSPACE ENGINEERING	ING-IND/04	6.5	12.50	27	1	19/02/2008
	ING-IND/06	1.0				
	ING-IND/15	5.0				
MATHEMATICAL ANALYSIS A AND GEOMETRY	MAT/05	5.0	10.00	30	1	03/03/2008
	MAT/03	5.0				
INFORMATICS C	ING-INF/05	5.0	5.00	29	2	02/07/2008
EXPERIMENTAL PHYSICS A + B	FIS/01	10.0	10.00	27	2	07/07/2008
BUSINESS ADMINISTRATION	ING-IND/35	5.0	5.00	29	2	10/07/2008
MATHEMATICAL ANALYSIS B	MAT/05	5.0	5.00	30 CUM LAUDE	2	14/07/2008
THERMODYNAMICS AND HEAT TRANSFER	ING-IND/10	10.0	10.00	27	1	03/02/2009
THEORETICAL MECHANICS	MAT/07	10.0	10.00	30	1	18/02/2009
INTEGRATION OF FUNDAMENTALS OF AEROSPACE ENGINEERING	ING-IND/15	2.5	2.50	27	2	29/06/2009
CIRCUITS AND ELECTRONICS	ING-IND/31	6.0	10.00	30 CUM LAUDE	1	30/06/2009
	ING-IND/32	2.0				
	ING-IND/33	2.0				
INTEGRATION OF CALCULUS 2	MAT/03	2.5	5.00	30	2	02/07/2009
	MAT/05	2.5				
FUNDAMENTALS OF AUTOMATIC CONTROL	ING-INF/04	8.0	8.00	30	2	10/07/2009
APPLIED NUMERICAL ANALYSIS	MAT/05	5.0	10.00	30 CUM LAUDE	2	31/07/2009
	MAT/08	5.0				
AEROSPACE SYSTEMS	ING-IND/05	8.0	8.00	28	2	08/09/2009
DYNAMICS OF AEROSPACE SYSTEMS	ING-IND/13	8.0	8.00	28	1	16/02/2010
FUNDAMENTALS OF STRUCTURAL MECHANICS	ICAR/08	5.0	10.00	30	1	23/02/2010
	ING-IND/04	5.0				
FLUID DYNAMICS	ING-IND/06	10.0	10.00	27	2	29/06/2010
AEROSPACE PROPULSION	ING-IND/07	7.0	7.00	27	1	06/07/2010
AEROSPACE TECHNOLOGIES AND MATERIALS	ING-IND/04	4.0	7.00	27	1	08/07/2010
	ING-IND/22	3.0				
FUNDAMENTALS OF ATMOSPHERIC AND SPACE FLIGHT MECHANICS	ING-IND/03	7.0	7.00	27	2	14/07/2010
PRINCIPLES OF AEROSPACE EXPERIMENTATION	ING-IND/04	6.0	6.00	29	2	27/07/2010
INTEGRATION OF FINAL DEGREE TEST			2.00	APPROVED	2	15/09/2010
INTEGRATION OF FINAL DEGREE TEST			4.00	APPROVED	2	15/09/2010

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E AI DOTTORANDI

Prot. 1082/228

	Description	SSD	Cfu/ECTS SSD	Cfu/ECTS	Score	Semester	Exam date
	FINAL DEGREE TEST	ING-IND/07 ING-IND/03 ING-IND/04 ING-IND/22	1.0 1.0 0.5 0.5	3.00	APPROVED	2	15/09/2010

The weighted average, calculated on the evaluation tests passed, excluding exams as extra, is 28.56/30 (104.73/110).

Stamp duty paid using the virtual system by Authorization of the Ministry of Finance no. DT2/10/101212/00 dated 17.11.2000

Milano, 03/12/2014 (dd/mm/yyyy)

Il Dirigente dell'Area Servizi agli Studenti e ai Dottorandi
Assunta Marrese

The above handwritten signature is replaced with a printed signature of the responsible person according to Article 3, paragraph 2 of Legislative Decree no. 39 dated 12th February 1993.

The officer in charge CONFALONIERI ALESSANDRA

According to Article 15 of Law no. 183 dated 12th November 2011, the present certificate cannot be issued for Public Administration Offices or Private Operators of public services.

This document is valid abroad only upon legalization, if necessary.

The data reported have been extracted from the computerized archive of Politecnico di Milano according to Legislative Decree no. 39 dated 12th February 1993.

POLITECNICO DI MILANO



AREA SERVIZI AGLI STUDENTI E AI DOTTORANDI

Servizio Segreterie Studenti

Dott.ssa Alessandra Confalonieri