Lukas Svarre Engedal
c/o Johansson
Ved Renden 27,1
2870 Dyssegård

KØBENHAVNS
UNIVERSITET

Date 30.05.2016

It is hereby confirmed that Lukas Svarre Engedal, Civil Registration Number: 210790-2727, is enrolled as a student at University of Copenhagen.

Name of the education: Bachelor's programme

The student graduated on 12.06.2013.
The student has passed the following subjects.
The credits are shown in ECTS

	Marks	ECTS Grade	Credits
Bachelor's programme, Physics	passed		180,0000
Bachelor, Major subject 120 ECTS, Physics	passed		120,0000
Physics Bsc Core Subjects	passed		120,0000
Bachelor Central Subjects	passed		120,0000
1. Year Mandatory Physics	passed		60,0000
1. Year Test	passed		60,0000
Mech1	passed		7,5000
Introduction to Mechanics and Relativity Theory	10	B	7,5000
Introduction to Math	passed		7,5000
Introduction to Mathematics for Science	12	A	7,5000
Linear Algebra	passed		7,5000
Linear Algebra in Science	10	B	7,5000
Mech2	passed		7,5000
Classical Mechanics	10	B	7,5000
Math F/Analysis 0	passed		7,5000
Mathematics for Physicists	10	B	7,5000
Thermodynamics and proj.	passed		7,5000
Thermodynamics and Project	7	C	7,5000
EM1	passed		7,5000
Electromagnetism	12	A	7,5000
Subject Group 1 or 2	passed		7,5000
Cosmology	10	B	7,5000

Lukas Svarre Engedal, Civil Registration Number: 210790-2727

2. & 3. Year Mandatory Physics	passed		45,0000
EM2 (Physics 6)	passed		7,5000
Electrodynamics and Waves	7	C	7,5000
Quantum Mechanics 1 (Physics 5)	passed		7,5000
Quantum Mechanics 1	10	B	7,5000
Videnskabsteori	passed		7,5000
Theory of Science and Ethics for Physics	7	C	7,5000
QM2(Physics 8)	passed		7,5000
Quantum Mechanics 2	7	C	7,5000
Statistical Physics	passed		7,5000
Statistical Physics	4	D	7,5000
Subject Group 1 and 2	passed		7,5000
Introduction to Nuclear and Particle Physics	12	A	7,5000
Physics Bachelorproject	passed		15,0000
Bachelor Project in Physics Title: Investigating the Host Galaxy Contribution in Spectra of Active Galactic Nuclei with Simulaitons	10	B	15,0000
Bachelor, Minor/elective subjects 30 ECTS, Physics	passed		22,5000
Physics Elective Module, 30 ECTS Outside Physics	passed		22,5000
Limited Elective Courses outside Physics	passed		22,5000
Bachelor Courses for Elective Module	passed		22,5000
Introduction to Atomic Physics	Passed		7,5000
Galaxies	4	D	7,5000
Planetary Systems and the Formation of Stars	Passed		7,5000
Bachelor, Minor/elective subjects 30 ECTS, Physics	passed		37,5000
30 ECTS Elective courses Free Subject	passed		37,5000
Free Elective Module	passed		37,5000
Physic Courses for Elective Module	passed		7,5000
Stellar Structure and Evolution	10	B	7,5000
Physics Other Electives 2	passed		7,5000
Observational Astrophysics	Passed		7,5000
Mathematics Elective Master Courses	passed		7,5000
Dynamical Systems and Chaos	7	C	7,5000
Elective Courses in Computer Science	passed		15,0000
Modelling in Science	12	A	7,5000
Programming and Problem Solving	10	B	7,5000

Lukas Svarre Engedal, Civil Registration Number: 210790-2727

Name of the education: Master's programme

The student has not graduated.
The student has passed the following subjects.
The credits are shown in ECTS

	Marks	ECTS Grade	Credits
Master's programme, Physics			30,0000
Master, Major subject 120 ECTS, Physics			30,0000
Physics Msc Core Module 120 ECTS General Profile			30,0000
Physics Msc Core Module			30,0000
Elective Elements Within the subject	passed		30,0000
Elementary Particle Physics	4	D	7,5000
General Relativity and Cosmology	10	B	7,5000
Physics Courses Central Subject	passed		15,0000
Physics - Master Level Courses Elective Module	passed		15,0000
Relativistic Cosmology	4	D	7,5000
Astronomical Data Processing	Passed		7,5000
Optional Elements	passed		0,0000

Name of the education: Bachelor's programme

The student has not graduated.
The student has passed the following subjects.
The credits are shown in ECTS

	Marks	ECTS Grade	Credits
Bachelor's programme, Computer Science			150,0000
Bachelor, Major subject 120 ECTS, Computer Science			82,5000
Computer Science Core Courses 120 ECTS			82,5000
Computer Science Core Courses			82,5000
Computer Science 1. Year Mandatory Courses	passed		60,0000
1. Year Test	passed		60,0000
Programming and Problem Solving / Introduction to Programming & Object-oriented Programming and Design	passed		15,0000
Introduction to Programming & Object-oriented Programming and Design	passed		15,0000
Object-oriented Programming and	12	A	7,5000

Lukas Svarre Engedal, Civil Registration Number: 210790-2727

Design			
Introduction to programming/Functional Programming	passed		7,5000
Introduction to Programming	12	A	7,5000
Algorithms and Data Structures	12	A	7,5000
First Year Project in Computer Science	passed		15,0000
Project Course: System Development	10	B	15,0000
Discrete Mathematical Structures Equivalent	passed		7,5000
Discrete Mathematical Structures	10	B	7,5000
Linear Algebra	passed		7,5000
Linear Algebra in Science	10	B	7,5000
Databases and webprogramming / datamining	passed		7,5000
Databases and Data Mining	12	A	7,5000
2. & 3. Year Mandatory			22,5000
Oversættere / implementering af programmeringssprog	passed		7,5000
Introduction to Compilers	12	A	7,5000
Theory of Science for Computer Science			
Transferred from University of Copenhagen, Denmark	7	C	0,0000
Videnskabsteori og etik for fysikere			
Computer Architecture	12	A	7,5000
Human-Computer Interaction/Probability Theory and Statistics (HCI/SS)	passed		7,5000
Probability Theory and Statistics	10	B	7,5000
Bachelor, Minor/elective subjects 60 ECTS, Computer Science	passed		67,5000
bachelor tilvalg 60 ECTS	passed		67,5000
Free Elective Module	passed		67,5000
Physic Courses for Elective Module	passed		60,0000
Electrodynamics and Waves	7	C	7,5000
Introduction to Mechanics and Relativity Theory	10	B	7,5000
Galaxies	4	D	7,5000
Thermodynamics and Project	7	C	7,5000
Electromagnetism	12	A	7,5000
Cosmology	10	B	7,5000
Classical Mechanics	10	B	7,5000
Quantum Mechanics 1	10	B	7,5000
Mathematics Elective Master Courses	passed		7,5000
Mathematics for Physicists	10	B	7,5000

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Name of the education: Master's programme

The student has not graduated.
The student has passed the following subjects.
The credits are shown in ECTS

	Marks	ECTS Grade	Credits
Master's programme, Computer Science			7,5000
Master, Major subject 120 ECTS, Computer Science			7,5000
General Profile in Computer Science 120 ECTS			7,5000
Elective Courses 15 ECTS			7,5000
MSc Courses	passed		7,5000
Astronomical Data Processing	Passed		7,5000