Technische Hochschule Wildau
Technical University of Applied Sciences
WILDAU

Master´s Degree Certificate

Mr **Fredriksson Chaves, José Rolando**

Date of Birth **12/07/1992** Place of Birth **San José / Costa Rica**

has passed Master´s degree examination at the Technical University of Applied Sciences Wildau

Faculty **Engineering and Natural Sciences**

Degree programme **Mechanical Engineering**

He is awarded the academic degree

Master of Engineering (M.Eng.)

Wildau, 08/29/2019

THE PRESIDENT
Prof. Dr. Tippe

Official Seal

This certificate is only valid in conjunction with the original certificate in German.

Technische Hochschule Wildau
Technical University of Applied Sciences
WILDAU

Master´s Degree Grades

Mr **Fredriksson Chaves, José Rolando**

Date of birth **12/07/1992** Place of birth **San José / Costa Rica**

has passed the master´s degree examination at the Technical University of Applied Sciences Wildau

Faculty **Engineering and Natural Sciences**

Degree programme **Mechanical Engineering**

Grades for the subjects studied in the four-semester degree were as follows:

Mathematical Methods and Optimisation	1,0	5 CP	Production Planning and Control	2,7	5 CP
Numerical Mathematics	3,0	3 CP	Production Management (Project)	1,3	7 CP
Physics	1,7	5 CP	Company Management and Finance	2,3	5 CP
Informatics for Engineering	2,7	5 CP	Controlling / Balance Sheet Analysis	2,7	5 CP
Technical Mechanics	2,7	5 CP	Business Law	1,7	3 CP
Dynamics of Machines	1,7	5 CP	Engineering Methods	1,7	2 CP
Numerical Simulation	2,0	5 CP	**Compulsory Elective Modules**		
Hydraulics / Pneumatics	3,7	5 CP	Digital Prototyping	1,0	5 CP
High-performance Materials and Coatings	2,0	5 CP	Regenerative Energy Technology	2,0	5 CP
Production Technologies	3,0	5 CP	**Oral Master Examination**	1,7	6 CP
Complex Production Systems	1,7	5 CP			

Subject of master´s thesis Concentrated Solar Power: A comparison and evaluation of innovative parabolic trough collector concepts for large scale application

Evaluation of master´s thesis 1,7 24 CP Total credits: 120

Final evaluation (average final grade)

B – very good (2,0)

Wildau, 08/29/2019

THE PRESIDENT
Prof. Dr. Tippe

Official Seal

CHAIR OF THE
EXAMINATIONS BOARD
Prof. Dipl.-Informatikerin Wilkes

This certificate is only valid in conjunction with the original certificate in German.

ECTS-grades: 1,0-1,5 = A - excellent, 1,6-2,0 = B - very good, 2,1-3,0 = C - good, 3,1-3,5=D - satisfactory, 3,6-4,0 = E - sufficient, m.E. = successful
WP = Compulsory Elective Subject, CP = Credit Points

Technische Hochschule Wildau
Technical University of Applied Sciences
WILDAU

Bachelor's Degree Certificate

Mr. **Fredriksson Chaves, José Rolando**

Date of Birth **12/07/1992** Place of Birth **San Jose, Costa Rica**

has passed the bachelor's degree examination at the Technical University of Applied Sciences Wildau

Faculty **Engineering and Natural Sciences**

Degree programme **Engineering (Mechanical Engineering)**

He is awarded the academic degree

Bachelor of Engineering (B. Eng.)

Wildau, 09/04/2015

THE PRESIDENT
Prof. Dr. Ungvári

Official Seal

This certificate is only valid in conjunction with the original certificate in German.

Technische Hochschule Wildau
Technical University of Applied Sciences
WILDAU

Bachelor's Degree Grades

Mr. **Fredriksson Chaves, José Rolando**

Date of birth **12/07/1992** Place of birth **San Jose, Costa Rica**

has passed the bachelor's degree examination at the Technical University of Applied Sciences Wildau

Faculty **Engineering and Natural Sciences**

Degree programme **Engineering (Mechanical Engineering)**

Grades for the subjects studied in the six-semester degree were as follows:

Mathematics	2,3	10 CP	Machine Elements / Construction	2,3	10 CP
Statistics	4,0	3 CP	Product Development / CAD	1,7	5 CP
Basics of Physics	1,7	2 CP	Production Preparation	3,3	5 CP
Physics practical	2,3	2 CP	Manufacturing Measurement Technology	2,3	4 CP
Basics of Chemistry	2,0	2 CP	Tool Machines	3,0	3 CP
Informatics	2,3	8 CP	Project Management / Presentation Methods	1,7	3 CP
Statics	3,0	5 CP			
Materials Mechanics	1,7	5 CP	Cost and Investment Accounting	1,7	4 CP
Electrical Engineering / Electronics / Drive Technology	2,7	6 CP	Business Law	2,3	2 CP
			Compulsory Elective Modules (Construction)		
Automation Technology / Sensors	1,7	7 CP	Computer-Aided Design	1,0	5 CP
Materials	1,3	6 CP	Finite Element Method	2,0	5 CP
Thermodynamics / Heat Transfer	1,0	5 CP	High Performance Materials	2,0	5 CP
Fluid Mechanics	1,7	5 CP	Special Construction Elements	3,0	5 CP
Construction Fundamentals / CAD	1,3	7 CP	**Internship**	m.E.	15 CP
Manufacturing Methods	2,0	9 CP	**Oral Bachelor Examination**	1,0	3 CP
Quality Management	2,3	5 CP			
Dynamics	4,0	5 CP			
Materials / Processes	1,7	2 CP			

Subject of bachelor's thesis Adaptation of the massreport for the train Class 485 and development of constructive measures to compensate for the current overburden

Evaluation of bachelor's thesis 1,0 12 CP **Total credits:** 180

Final evaluation (average final grade)

B – very good (2,0)

Wildau, 09/04/2015

THE PRESIDENT
Prof. Dr. Ungvári

Official Seal

CHAIR OF THE EXAMINATIONS BOARD
Prof. Dr. Goldmann

This certificate is only valid in conjunction with the original certificate in German.

ECTS-grades: 1,0-1,5 = A - excellent, 1,6-2,0 = B - very good, 2,1-3,0 = C - good, 3,1-3,5=D - satisfactory, 3,6-4,0 = E - sufficient, m.E. = successful
WP = Compulsory Elective Subject, CP = Credits Points

Erasmus+ LEONARDO-Büro Brandenburg Erasmus+ btu Brandenburgische Technische Universität Cottbus - Senftenberg

Certificate

This is to certify that, under the **Erasmus+** Programme of the European Union/ERASMUS+ Traineeships,

Jose Fredriksson
(born on 07.12.1992),

Student of the

Technical University of Applied Sciences Wildau,

has successfully completed a European work traineeship with support of the LEONARDO Office Brandenburg

from **15.11.2018** to **03.05.2019**

at

German Aerospace Center
Tabernas (Almería), Spain

Through the traineeship, the student has had the chance to gain training and work experience in a foreign country, thus acquiring new qualifications, language and intercultural competencies as well as professional skills.

The LEONARDO Office Brandenburg certifies that the traineeship met the quality standards of the **Erasmus+** Programme in accordance with its goals and intentions to enhance the mobility and competitiveness of students in the European labour market. The traineeship has been supported with a grant of the European Union.

Cottbus, 14/06/2019

Kerstin Schneider
Project Coordinator

Brandenburg University of Technology
Cottbus–Senftenberg
LEONARDO-Office Brandenburg
P.O. Box 10 13 44 • 03013 Cottbus
Germany

Stamp

ELSEVIER

Solar Energy

Certificate of publication for the article titled:

"A comparison and evaluation of innovative parabolic trough collector concepts for large-scale application"

Authored by:

M. Eng. José Fredriksson

Dpl. Ing. Martin Eickhoff, Prof. Lutz Giese, Prof. Michael Herzog

Published in:

Volume 215, Pages 266 - 310

Serial number: PR-269973-5D5CF97FAF11

Shaw Academy

CERTIFICATE OF COMPLETION

Result: Pass

Date: June 1, 2020

CONGRATULATIONS TO José Fredriksson

who has successfully completed the following:

Professional Diploma In Project Management & Leadership
Module 1, Week 4 Assignment

JAMES EGAN
CERTIFICATION OFFICER

Università degli Studi di Roma "Tor Vergata"
Dipartimento di Fisica

Dr. phil. Angelika Schubert
Akademisches Auslandsamt /
International Office
Technische Hochschule Wildau/
University of Applied Sciences
Hochschulring 1
D-15745 Wildau

Object: Transcript of Records

Dear Partner,

Please find enclosed the Transcript of Records for your exchange student **José Fredriksson**, that stayed at our institution during the academic year 2017/18.
The student mentioned above has attended courses at the Faculty of Science in the frame of the ERASMUS+ programme.

Best Regards,

Laura Calconi
Erasmus+ Office
School of Science

Università degli Studi di Roma "Tor Vergata"

FACOLTA' DI SCIENZE MM. FF. NN. - Segreteria Studenti

SI CERTIFICA CHE

Certificato Erasmus/Scambi Culturali

FREDRIKSSON JOSE, matricola n. 0264740, nato a COSTA RICA SAN JOSE (GERMANIA) il 07/12/1992, proveniente da TECHNISCHE HOCHSCHULE WILDAU - D WILDAU01, nell'ambito del Progetto di mobilità interuniversitaria LLP/Erasmus nell'anno accademico 2017/2018 ha sostenuto i seguenti esami:

N.	ESAME	VOTO	CREDITI	DATA
1	LABORATORIO DI SISTEMI ENERGETICI 6.00 CFU PER ING-INF/01	28	6,00	22/06/2018
2	GRAVITATIONAL PHYSICS 6.00 CFU PER FIS/01	26	6,00	28/06/2018
3	STAGE	27	6,00	25/07/2018
4	CELESTIAL MECHANICS 6.00 CFU PER FIS/05	26	6,00	12/09/2018

Esami riportati: 4 Tot. crediti: 24,00

Si rilascia il presente certificato in carta semplice in quanto ad uso esclusivo degli Atenei interessati.

AREA SERVIZI INFORMATIVI
Ing. Domenico Genovese

L' INCARICATO DEL RILASCIO
Patrizia Morelli

Le firme autografe sono sostituite da indicazione di stampa dei nominativi dei soggetti responsabili ai sensi del D.Lgs. 12/02/1993 n.39 art.3, comma 2.
I dati riportati nel presente certificato sono estratti dagli archivi informatizzati di questa Università ai sensi del D.Lgs. 12/02/1993 n.39 art.3, comma 1.

Data rilascio: Roma, li 20/09/2018

N. protocollo: OL-CERT-2018/139388

Via Cracovia, 50 - 00133 Roma – Tel. 06.7259.3099

esa

esa academy

→ PRODUCT ASSURANCE AWARENESS TRAINING COURSE 2019

CERTIFICATE

presented to

José Fredriksson

for your participation in ESA Academy's Product Assurance Awareness Training Course 2019

ESA Academy's Training & Learning Facility, ESEC-Galaxia, Belgium
4–7 June 2019

Hugo Marée
Head of Education Office, ESA

Britta Schade
Head of the Product Assurance and Safety Department, ESA

Official Transcript of Records

ESA Academy Training Session:

Product Assurance Awareness Training Course 2019

Student personal data:

Complete name: **José Fredriksson**
Date of birth: **1992-12-07**
Nationality: **Germany**

Course data:

Location: **Training and Learning Facility, ESEC-Galaxia, Belgium**
Date: **4 – 7 June 2019**
Total duration: **33 h**

Lecture	Duration
Introduction and ESA Academy programme	1 h
Overall Context of Space Projects	3 h 45 m
Space Debris Mitigation Guidelines and Principles	1 h
Setting the Scene	1 h
Quality Management & Assurance	4 h
Dependability & Safety	4 h 15 m
Software Product Assurance	4 h
Materials and Processes	4 h 15 m
Electrical, Electronic and Electromechanical Components & Radiation Hardness Assurance	4 h
Product Assurance in Space Business	3 h 15 m
Visit of ESEC-Redu	1 h
Evaluation and Conclusion	1 h

Evaluation result:

Grading system: Grade: **B**

Grade	Definition	Grade	Definition
A	Outstanding performance with only minor errors	D	Fair but with significant shortcomings
B	Above the average standard but with some errors	E	Performance meets the minimum criteria
C	Generally sound work with a number of notable errors	F	Fail – performance did not meet the minimum criteria

Transinne, 14 June 2019

Hugo Marée
Head of Education Office
European Space Agency

ares
association of retired esa staff

esa

esa academy academy

→ EARTH OBSERVATION SATELLITE SYSTEM DESIGN TRAINING COURSE

CERTIFICATE

presented to

José Fredriksson

for your participation in the ESA Academy's Earth Observation Satellite System Design Training Course 2018

ESA Academy Training & Learning Centre, ESEC, Belgium
1 - 5 October 2018

Hugo Marée
Head of Education Office, ESA

Jochen Schaper
President of ARES

Official Transcript of Records

ESA Academy Training Course:
Earth Observation Satellite System Design Training Course 2018

Student personal data:
Complete name: **José Fredriksson**
Date of birth: **1992-12-07**
Nationality: **German**

Course data:
Location: **Training and Learning Facility, ESEC-Galaxia, Belgium**
Date: **1 – 5 October 2018**
Total duration: **36 h**

Lecture	Duration
Introduction, ESA and ESA Education Programme	1 h 30 m
Introduction to EO & EO Satellite Systems	2 h
From Observation Requirements to System Requirements	1 h 45 m
Orbit Selection and Launcher Alternatives Lecture and Exercise	2 h
Risk Management & Technology Development	2 h
Microwave Instrumentation Lectures and Exercise	6 h
Optical Instrumentation Lectures and Exercise	6 h
Satellite System Design & Payload Accommodation	2 h
Ground Segment & Operations Concepts	2 h
On-Ground and In-Orbit AIV - Assembly, Integration and Verification & Launch Campaign	2 h
Development of Applications based on EO Data	1 h
Group Project	6 h 15 m
Visit of ESEC including the PROBA Operations Room and Ka-Band Antenna	1 h
Conclusion	30 m

Evaluation result:

Grading system: Grade: **A**

Grade	Definition	Grade	Definition
A	Outstanding performance with only minor errors	D	Fair but with significant shortcomings
B	Above the average standard but with some errors	E	Performance meets the minimum criteria
C	Generally sound work with a number of notable errors	F	Fail – performance did not meet the minimum criteria

Transinne, 17 October 2018

Hugo Marée
Head of Education Office
European Space Agency

DB Mobility Networks Logistics

Teilnahmebestätigung

Hiermit bestätigen wir José Fredriksson die Teilnahme an unserem konzernweiten Praktikantentag

„Train for TRAIN Day“

der am 20.03.2015 in Berlin stattgefunden hat.

José Fredriksson hat während der Veranstaltung an einem Assessment-Center-Training teilgenommen.

Wir wünschen Herrn Fredriksson für die verbleibende Zeit bei der Deutschen Bahn viel Erfolg!

Berlin, 20.03.2015

Marcus Valdiek
DB Mobility Logistics AG
Personalmarketing und Rekrutierung

Kathrin Toppel
DB Mobility Logistics AG
Personalmarketing und Rekrutierung

O Instituto de Desenvolvimento Educacional da Fundação Getulio Vargas confere a

JOSE ROLANDO FREDRIKSSON CHAVES

O Certificado do Curso

Táticas para Negociação e Fechamento de Acordos

Nível atualização oferecido pelo Programa FGV Educação Executiva.

Data de Emissão: 10/09/2021 Carga horária: 16 horas

Código de Autenticidade: 170283608

Mary Kimiko Guimarães Murashima

Diretora Executiva - DGA

Instituto de Desenvolvimento Educacional - IDE

QR Code de Autenticidade

GESEL UFRJ

105 anos RIO

MERCOSUL AHK

Deutsch-Brasilianische Industrie- und Handelskammer
Câmara de Comércio e Indústria Brasil-Alemanha

CERTIFICADO DE CONCLUSÃO

Certificamos que José Fredriksson concluiu o Curso **Hidrogênio e Transição Energética** oferecido pela Câmara de Comércio e Indústria Brasil-Alemanha do Rio de Janeiro realizado no ano de 2021.

Hanno Erwes
Diretor Executivo AHK Rio

Prof. Nivalde de Castro
Coordenador GESEL/UFRJ

Supported by:
Federal Ministry for Economic Affair and Energy
on the basis of a decision by the German Bundestag

Partner In Energy Transition

hidrogênio verde
Aliança Brasil-Alemanha

Módulos do Curso:

Bloco 1: Transição Energética

Bloco 2: O desenvolvimento de uma economia do Hidrogênio

Bloco 3: Modelos Regulatórios e Políticas Públicas

Bloco 4: Experiência Internacional com o Hidrogênio

Bloco 5: A Economia do Hidrogênio no Brasil

Bloco 6: Um olhar para o futuro: Oportunidades, desafios e perspectivas

Carga horária: 16 horas

GESEL UFRJ

105 anos RIO

MERCOSUL AHK Deutsch-Brasilianische Industrie- und Handelskammer
Câmara de Comércio e Indústria Brasil-Alemanha