#### hochschule mannheim





# TRANSCRIPT BACHELOR

Hochschule Mannheim Mannheim University of Applied Sciences in co-operation with Heidelberg University

Mr Abdallah Abdul-Latif

born on February 18, 1998 in Heidelberg/ Germany

has successfully fulfilled all the requirement of the study programme Biomedical Engineering

with the grade of Distinction (1.2)

Thesis

Definition von HL7 FHIR Profilen aus einem generischen Datenmodell zu strukturierten radiologischen Befundung

Mannheim, August 24, 2021

Professor Astrid Hedtke-Becker

President

Mannheim University of Applied Sciences

Professor Sergij Goerdt Dean Medical Faculty Mannheim University of Heidelberg





### Mr Abdallah Abdul-Latif

Has completed the following modules / courses

Course / Module	Grade	CR	Course / Module	Grade	CR
Mathematics in Biomedical Engineering			Non Technical Subjects		
Mathematics 3	1.0	6	Database Systems	1.3	5
Signals and Systems	1.0	5	Business Administration	1.0	5
Digital Signal Processing	1.3	5	Dusiness Administration	1.0	5
			Internship Semester and Block Courses		
Software Design and Software Architecture			Block Course 1	р	2
Software Development			Block Course 2	p	2
Methods and Tools	1.0	5	Internship	p	25
Software Engineering	1.3	5	omp	-	20
Fundamentale of Eletronic Ford			Electives		
Fundamentals of Eletronic Engineering EM Fields		Python-Programming	1.7	5	
	1.0	5	Digital Image Processing and		
Analogue Electronics 1	1.0	5	Pattern Recognition	1.7	5
Sensorics 1	1.0	5	<b>3</b> ,		Ü
Digital and Embedded Systems			Bachelor Thesis		
Digital Systems and	ems		Bachelor Thesis Seminar	р	3
Microprocessor Technology			Bachelor Thesis	1.0	12
	1.0	5			
Embedded Systems	1.0	6			
Operating Systems/High-Fro	equency Engineering				
Operating Systems	1.0	5			
0					
Communication Systems					
Computer Networks 2	1.3	5			
Advanced Occurrence		Main Study		150	
Advanced Courses in Biomedical Engineering		Basic Study			
Introduction to Clinical		Total Credits awarded according to ECTS		61	
Medicine	2.7	4	and a contract accord	amy to EC15	211
Medical Imaging	1.3	5			
Image Guided Intervention					
and Navigation in Medicine	1.7	5			
Biomedical Elektronics	1.0	5			
Neuroprosthetics	2.0	5			

Maprineim, August 24, 2021

Professor Thomas Schüssler

Vice President Academics



Grades

1.0-1.5 very good

1.6 – 2.5 good 2.6 – 3.5 satisfactory

3.6 - 4.0 sufficient

pass

### hochschule mannheim





# CERTIFICATE BACHELOR

Hochschule Mannheim Mannheim University of Applied Sciences in co-operation with Heidelberg University

has conferred upon Mr Abdallah Abdul-Latif

born on February 18, 1998 in Heidelberg/ Germany

the degree Bachelor of Science, B.Sc.

in Biomedical Engineering

The degree holder is entitled to use the Professional Title "Ingenieur".

Mannheim, August 24, 2021

Professor Astrid Hedtke-Becker

President

Mannheim University of Applied Sciences

University Seal Chule Manual Heilm

Professor Sergij Goerdt Dean Medical Faculty Mannheim University of Heidelberg

