

Master

Mr
S. M. Firoj Mahmud

Date of birth 08/20/1992
Place of birth Barisal

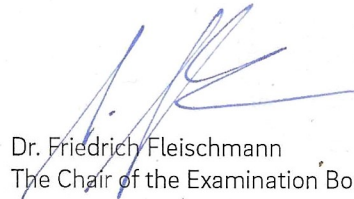
has passed the final exam in the degree programme

Electronics Engineering M.Sc.

according to the examination regulations of the Faculty 4: School of
Electrical Engineering and Computer Science
with an

overall grade good (1.7)

Bremen, July 27, 2023



Dr. Friedrich Fleischmann
The Chair of the Examination Board



Master

Academic Results

Master Thesis

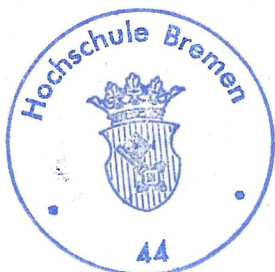
Design, Implementation and Verification of an Obstacle Avoidance System for Collision-Free Movement of a Robot

	Grade	ECTS Credits
Master		30
Master Thesis	excellent	1.3
Master Thesis Colloquium	excellent	1.3

Modules

Field of study - Intelligent Sensors and Instrumentation

Measurement and Instrumentation	satisfactory	3.2	6
Stochastic Signals and Systems	good	2.5	6
Laser Systems and Applications	good	2.4	6
Computer Aided Data Acquisition	excellent	1.3	6
Fiber Optic Test and Measurement	good	1.9	6



Grading System
very good (1,0 - 1,5) · good (1,6 - 2,5) · satisfactory (2,6 - 3,5) · sufficient (3,6 - 4,0)

Master

	Grade		ECTS Credits
Compulsory elective module(s)			
Optical Communications	satisfactory	2.6	6
Image Processing and Pattern Recognition	satisfactory	3.5	6
Advanced Topics of Lasers	excellent	1.5	6
Projectmanagement and Teambuilding	excellent	1.3	6
Language Modul German	excellent	1.3	6
Total ECTS Credits			90

	Grade		ECTS Credits
Optional module(s) (not included in the overall grade)			
Embedded Systems Applications	satisfactory	3.4	12
Microwave Circuit and Systems - Experimental task	good	2.5	---
Total ECTS Credits			12



Grading System
very good (1,0 - 1,5) · good (1,6 - 2,5) · satisfactory (2,6 - 3,5) · sufficient (3,6 - 4,0)