



SATBAYEV
UNIVERSITY

Non-profit joint stock company
«K.I. Satbayev Kazakh National Research Technical University»

By the Decision of the Attestation Commission

on 6 June 2023 № 13

Akimov Maxim

awarded the degree of BACHELOR

engineering and technology

on the specialty and (or) educational program

6B07111-Robotics and mechatronics

Form of training *Full time*

Accreditation Committee



Chairman of the Board – *ctor*



Begentayev M.

1 July 2023
BD 00017234482

Registration
number 252

Republic of Kazakhstan
Almaty

1. Last Name: Akimov
2. First Name, Patronymic (if any): Maxim
3. Date of birth: 29 October 2000
4. Previous educational background (document type, number of document, date of issue):
Diploma, ТКБ № 0141158, 27 June 2020
5. Entrance Examinations (type, number of document, date of issue):
Certificate, ТКБ № 0141158, 27 July 2020
6. Enrolled (higher education institution, year of enrollment):
Kazakh National Research Technical University named after K.I.Satbayev, 2020 y.
7. Graduated (higher education institution, graduation year):
Kazakh National Research Technical University named after K.I.Satbayev, 2023 y.
8. Total number of academic credits earned, ECTS: 277
9. Grade point average (GPA): 3.76

10. Professional internship

Internship type	Number of academic credits – ECTS	Grade		
		Letter Grade	Numeric Grade	Traditional Grade
Training Practice	2	P	0	0
Production Practice I	4	P	0	0
Industrial practice II	9	P	0	0

11. Final attestation

Topic of thesis project (thesis) or dissertation	Number of academic credits – ECTS	Grade		
		Letter Grade	Numeric Grade	Traditional Grade
Development of a control system for an automated cooling system using a PLC based on the Arduino family	12	A	4	5



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**SUPPLEMENT
TO DIPLOMA
(Transcript)**

№ BD 00017234482

1 July 2023
(date of issue)

252
(registration number)

**Chairman
of the Board – Rector**



NOT VALID WITHOUT DIPLOMA

NOT VALID WITHOUT DIPLOMA

12. Theoretical training:

№	Code of discipline	Name of discipline	Number of academic credits – ECTS	Grade		
				Letter Grade	Numeric Grade	Traditional Grade
1	2	3	4	5	6	7
1	ROB1562	Basics of Electronics	6	A-	3.67	5
2	ROB1982	Fundamentals of Electromechanics	6	A-	3.67	5
3	ROB1992	Biomorphic and anthropomorphic robotics	6	A-	3.67	5
4	CSE1743	Information and communication technology	6	B	3	4
5	PHY00120	Physics	6	A-	3.67	5
6	PHY00121	Physics I	6	A-	3.67	5
7	AAP122	Physical education III	4	P	0	0
8	LNG1051	English Beginner (A1)	6	A-	3.67	5
9	LNG1055	English Academic (B1)	6	A-	3.67	5
10	ROB1732	Mechanic manipulators	6	A	4	5
11	LNG1056	English language Business (B2+)	6	A-	3.67	5
12	LNG1041	Elementary Kazakh language	4	A-	3.67	5
13	HUM1003	Modern history of Kazakhstan (state exam)	6	A	4	5
14	HUM1243	Philosophy	6	A	4	5
15	MAT00121	Mathematics I	6	B	3	4
16	ROB1072	Introduction to the specialty	6	A-	3.67	5
17	PHY00122	Physics II	6	A-	3.67	5
18	GEN1013	Engineering and computer graphics	6	A	4	5
19	AAP106	Physical education I	4	P	0	0
20	AAP118	Physical education II	4	P	0	0
21	MAT00130	Mathematics	6	A-	3.67	5
22	ROB1973	Calculation methods and programming	6	A	4	5
23	ROB4082	Mechanics of robots	6	A-	3.67	5
24	ROB1582	Basics of automation	6	A-	3.67	5
25	HUM1262	Social-political knowledge	8	A	4	5
26	MAT00124	Ordinary differential equations. Matlab.	6	B+	3.33	4
27	MAT1023	Mathematics II	5	B	3	4
28	MAT1032	Mathematics III	5	B	3	4
29	ROB5062	Integral and microprocessor circuit design	5	A	4	5
30	ROB5102	Fundamentals of information and measuring technologies	5	A-	3.67	5
31	ROB5082	Power Supplies	5	A	4	5
32	ROB5112	Autonomous mobile robots	5	A	4	5
33	ROB5162	Automated Drives	5	A	4	5
34	ROB5172	Optic methods of control and analysis	5	A	4	5
35	ROB5122	Theory of automatic control	5	A	4	5
36	ROB1662	Designing robots	5	A-	3.67	5
37	ROB1552	Methods of non destructive testing	5	A	4	5
38	ROB1392	Sensor systems in robotics	5	A	4	5
39	ROB1712	Robot drives	5	A	4	5
40	ROB1812	Embedded systems in robotics	5	A	4	5
41	ROB1342	Software mechatronics and robotic systems	5	A	4	5
42	ROB5282	ICT - Programming for engineers with MATLAB	5	A	4	5
43	ROB1152	Artificial intelligence and expert system	5	A	4	5
44	ROB1371	ADES of robotic systems	5	A	4	5
45	ROB1482	Robot control	5	A-	3.67	5
46	ROB146	Management in biotechnical systems	5	A-	3.67	5

13. Total number of academic credits – ECTS of theoretical training: 244

14. By the Decision of the Attestation Commission (Minutes No. 13 dated 6 June 2023)

Bachelor of engineering and technology (degree/qualification) was awarded in the specialty and (or) educational program 6B07111 Robotics and mechatronics

15. Level of compliance with the National Qualification Framework: level 6, bachelor

* In accordance with the Standard Rules of the activities of organizations of higher and (or) graduate education, approved by the order of the Ministry of Education and Science of the Republic of Kazakhstan No. 595 dated October 30, 2018, the "C+" letter grade is equivalent to the traditional "Good" grade