



GDAŃSK UNIVERSITY
OF TECHNOLOGY

Faculty of Electrical and Control Engineering



Gdańsk, 03.02.2016
Diploma no. 107297

DIPLOMA

of Higher Education

ISSUED IN THE REPUBLIC OF POLAND

Copy

Andrzej Marek Reinke

date of birth: 8 January 1993

place of birth: Gdynia

professional title awarded:

Engineer

date: 2 February 2016

level of qualifications: undergraduate studies

mode of study: Full-time studies

field of study: Electrical Engineering

specialization:

area: technical sciences

profile: general academic profile

grade: Very good

signature of the degree holder

prof. dr hab. inż. Leon Świderski
prof. nadzw. PG

Dean of Faculty

prof. dr hab. inż. Henryk Krawczyk
prof. zw. PG

Rector



Study process card

04.05.2016

ANDRZEJ REINKE birth date 08.01.1993 album number 143830

Faculty of Electrical and Control Engineering

Studies: Full-time studies undergraduate studies

Field: Electrical Engineering

Specialty/profile: -

Semester 1

Lp.	Subject	Date	L	C	Lb	P	S	Grade	ECTS	Grade date
1.	Physics (K:07003W0)	2012/2013 - winter	45	30	0	0	0	5.0 E	6	31.01.2013
2.	Geometry and Graphics for Engineers (K: 06885W0)	2012/2013 - winter	15	0	15	0	0	4.5 Z	2	25.01.2013
3.	Information Competence (K:14002W0)	2012/2013 - winter	0	0	0	0	0	Zal Z	0	31.01.2013
4.	Mathematics (K:07801W0)	2012/2013 - winter	30	30	0	0	0	5.0 E	6	25.02.2013
5.	Mechanics (K:06008W0)	2012/2013 - winter	30	15	0	0	0	5.0 Z	3	23.01.2013
6.	Electric Circuits (K: 06003W0)	2012/2013 - winter	30	30	0	0	0	5.0 E	5	06.02.2013
7.	Propedeutics of Mathematics (K:06204W0)	2012/2013 - winter	30	30	0	0	0	5.0 Z	4	14.02.2013
8.	Psychology (K:06201W0)	2012/2013 - winter	30	0	0	0	0	5.0 Z	2	22.01.2013
9.	Safety-at-Work Training and Fire Drill (K: 20001W0)	2012/2013 - winter	0	0	0	0	0	Zal Z	0	28.09.2012
10.	Training from Platform eStudent (K:20004W1)	2012/2013 - winter	2	0	0	0	0	Zal Z	0	04.02.2013
11.	First Aid Training Course (K:20004W0)	2012/2013 - winter	0	0	0	0	0	Zal Z	0	28.09.2012
12.	Information Technologies (K:06203W0)	2012/2013 - winter	30	0	0	0	0	5.5 Z	2	07.02.2013

Grade average 5,000 ECTS sum 30

Semester 2

Lp.	Subject	Date	L	C	Lb	P	S	Grade	ECTS	Grade date
1.	Informatics (K:06001W0)	2012/2013 - summer	30	15	15	0	0	5.5 Z	4	28.06.2013
2.	English Language (K: 11800C0)	2012/2013 - summer	0	30	0	0	0	5.0 Z	2	27.06.2013
3.	Physics - Laboratory (K: 06317L0)	2012/2013 - summer	0	0	30	0	0	5.0 Z	3	18.06.2013
4.	Mathematics (K:07801W1)	2012/2013 - summer	45	60	0	0	0	5.5 E	8	26.06.2013
5.	Numerical Methods (K: 06007W1)	2012/2013 - summer	15	30	0	0	0	5.5 Z	3	03.07.2013
6.	Metrology (K:06010W0)	2012/2013 - summer	30	0	0	0	0	5.0 E	3	28.06.2013
7.	Electric Circuits (K: 06003W1)	2012/2013 - summer	30	30	0	0	0	5.0 E	5	20.06.2013
8.	Electric Power Generation Technology (K:06854W0)	2012/2013 - summer	30	0	0	0	0	4.0 Z	2	11.06.2013

Grade average 5,183 ECTS sum 30

Semester 3

Lp.	Subject	Date	L	C	Lb	P	S	Grade	ECTS	Grade date
1.	Electrodynamics (K: 06005W0)	2013/2014 - winter	30	0	15	0	0	5.0 E	5	05.02.2014
2.	Electronics (K:06026W0)	2013/2014 - winter	30	0	30	0	0	4.5 E	5	04.02.2014
3.	Informatics (K:06001W1)	2013/2014 - winter	15	0	30	0	0	4.5 Z	3	31.01.2014
4.	Materials Engineering (K: 06808W0)	2013/2014 - winter	30	0	15	0	0	4.5 Z	3	30.01.2014
5.	English Language (K: 11800C1)	2013/2014 - winter	0	30	0	0	0	4.0 Z	2	11.02.2014
6.	Metrology Lab (K: 06011L1)	2013/2014 - winter	0	0	30	0	0	4.5 Z	2	29.01.2014
7.	Electric Machines (K: 06810W0)	2013/2014 - winter	30	0	30	0	0	5.0 E	5	10.02.2014
8.	Electric Circuits (K: 06003W2)	2013/2014 - winter	15	30	0	0	0	5.5 E	4	06.02.2014
9.	Physical Education (Sport) (K:13001C0)	2013/2014 - winter	0	30	0	0	0	5.0 Z	1	08.02.2014

Grade average 4,783 ECTS sum 30

Semester 4

Lp.	Subject	Date	L	C	Lb	P	S	Grade	ECTS	Grade date
1.	Electrical Power Engineering (K:06158W0)	2013/2014 - summer	30	0	15	0	0	4.5 E	4	19.09.2014
2.	Power Engineering Electronics (K:06043W1)	2013/2014 - summer	30	15	15	0	0	4.5 E	4	24.06.2014
3.	Electrical Engineering in Transport (K:06280W0)	2013/2014 - summer	30	0	15	0	0	5.0 Z	4	16.06.2014
4.	English Language (K: 11800C2)	2013/2014 - summer	0	30	0	0	0	4.0 Z	2	26.06.2014
5.	Electric Drive (K: 06037W0)	2013/2014 - summer	30	0	15	0	0	5.5 E	4	29.06.2014
6.	Essentials of Automatics (K:06029W0)	2013/2014 - summer	30	15	0	0	0	5.5 Z	3	22.06.2014
7.	High Voltage Engineering (K:06815W1)	2013/2014 - summer	30	0	15	0	0	4.5 E	4	20.06.2014
8.	Microprocessor Technologies (K: 06279W0)	2013/2014 - summer	30	0	30	0	0	5.5 Z	4	30.06.2014
9.	Physical Education (Sport) (K:13001C1)	2013/2014 - summer	0	30	0	0	0	5.0 Z	1	19.06.2014

Grade average 4,917 ECTS sum 30

Semester 5

Lp.	Subject	Date	L	C	Lb	P	S	Grade	ECTS	Grade date
1.	Wiring Systems and Lighting Technology (K: 06304W0)	2014/2015 - winter	30	0	0	30	0	4.0 E	5	04.02.2015
2.	Engineering of Alarm Systems (K:06305W0)	2014/2015 - winter	15	0	15	0	0	5.0 Z	2	20.01.2015
3.	English Language (K: 11800C3)	2014/2015 - winter	0	30	0	0	0	3.5 Z	2	10.02.2015
4.	Industrial Computer Networks (K:06183W0)	2014/2015 - winter	15	0	15	0	0	5.5 Z	2	29.01.2015
5.	Programmable Controllers (K:06821W0)	2014/2015 - winter	30	15	15	0	0	4.5 E	4	23.01.2015
6.	Dynamic Signals and Systems (K:06303W0)	2014/2015 - winter	30	0	15	0	0	5.5 Z	4	11.02.2015
7.	Electric Power Systems (K:06818W0)	2014/2015 - winter	30	0	15	0	0	4.5 Z	3	03.02.2015
8.	Electrical Equipment (K: 06025W0)	2014/2015 - winter	30	0	15	0	0	4.0 E	4	05.02.2015
9.	Equipment and Systems for Supplying Industrial Objects (K:06306W0)	2014/2015 - winter	30	30	0	0	0	4.5 Z	4	05.02.2015

Grade average 4,517 ECTS sum 30

Semester 6

Lp.	Subject	Date	L	C	Lb	P	S	Grade	ECTS	Grade date
1.	Intelligent Building (K: 06184W0)	2014/2015 - summer	15	0	15	0	0	5.0 E	2	03.06.2015
2.	Quality of Energy in Industrial Environment (K: 06897W0)	2014/2015 - summer	30	15	15	0	0	5.5 Z	4	10.06.2015
3.	Organization of Engineer's Work and Basics of Standardization (K: 06040W2)	2014/2015 - summer	30	0	0	0	0	4.5 Z	1	11.06.2015
4.	Professional Practice (K: 06893W0)	2014/2015 - summer	0	0	0	0	0	Zal Z	4	18.09.2015
5.	Team Project (K: 21035P0)	2014/2015 - summer	0	0	0	120	0	5.0 Z	8	28.06.2015
6.	Accountancy and Energy Management (K: 06318W0)	2014/2015 - summer	30	0	0	15	0	4.5 Z	3	30.06.2015
7.	Industrial Automatics Systems (K: 06323W0)	2014/2015 - summer	30	15	15	0	0	5.5 Z	4	12.06.2015
8.	Computer-Aided Design in Electrical Engineering (K: 06061W0)	2014/2015 - summer	30	15	15	0	0	4.5 Z	4	16.06.2015

Grade average 5,000 ECTS sum 30

Semester 7

Lp.	Subject	Date	L	C	Lb	P	S	Grade	ECTS	Grade date
1.	Safety of Electrical Equipment Usage (K: 06079W0)	2015/2016 - winter	30	0	15	0	0	3.0 Z	3	08.12.2015
2.	Diploma/Final Dissertation (K: 06861C0)	2015/2016 - winter	0	0	0	0	0	5.5 Z	10	14.01.2016
3.	Diploma Workshop (K: 06891P0)	2015/2016 - winter	0	0	0	90	0	5.5 Z	11	16.12.2015
4.	Preparation for Final Examination (K: 06890C0)	2015/2016 - winter	0	0	0	0	0	Zal Z	5	02.02.2016
5.	Diploma Seminar (K: 06825S0)	2015/2016 - winter	0	0	0	0	15	5.0 Z	1	13.12.2015

Grade average 5,180 ECTS sum 30

abbreviations used in the tables above:

L- lecture, C - classes, Lb- laboratories, P - project, S- seminar, Z – credit grade, E – examination grade

Studies average: 4,933 ECTS sum: 210

Grades scale:

- 2.0 unsatisfactory
- 3.0 satisfactory
- 3.5 quite good
- 4.0 good

4.5 more than good

5.0 very good

5.5 excellent

There is also possibility of earning credits for subjects without grades - named: Zal.

Study process card

29.11.2016

ANDRZEJ REINKE birth date 08.01.1993 album number 143830
Faculty of Applied Physics and Mathematics
Studies: Full-time studies undergraduate studies
Field: Technical Physics
Specialty/profile: Applied Physics

Semester 1

Lp.	Subject	Date	L	C	Lb	P	S	Grade	ECTS	Grade date
1.	Mathematical analysis I (FIZ1B001)	2014/2015 - winter	30	30	0	0	0	4.0 E	7	09.02.2015
2.	History of physics and technology (FIZ1D001)	2014/2015 - winter	15	0	0	0	0	4.0 Z	2	11.02.2015
3.	Information Competencies (F:1789)	2014/2015 - winter	2	0	0	0	0	Zal Z	0	31.01.2013
4.	Kurs BHP i pierwsza pomoc (F:KBHPiPP)	2014/2015 - winter	2	0	0	0	0	Zal Z	0	28.09.2012
5.	Mechanics and heat (FIZ1B002)	2014/2015 - winter	30	30	0	0	0	4.5 E	7	04.02.2015
6.	Planning and analysis of experiment (FIZ1B003)	2014/2015 - winter	15	15	0	0	0	5.0 Z	4	04.02.2015
7.	Szkolenie z platformy eStudent (F:SPeS)	2014/2015 - winter	2	0	0	0	0	Zal Z	0	04.02.2013
8.	Introduction to computer science (FIZ1B004)	2014/2015 - winter	0	0	30	0	0	5.0 Z	4	17.02.2015
9.	Introductory mathematics (FIZ1B005)	2014/2015 - winter	15	45	0	0	0	5.0 Z	6	09.02.2015

Grade average 4,583 ECTS sum 30

Semester 2

Lp.	Subject	Date	L	C	Lb	P	S	Grade	ECTS	Grade date
1.	Linear algebra with geometry (FIZ1B006)	2015/2016 - summer	30	30	0	0	0	4.0 E	5	27.06.2016
2.	Mathematical analysis II (FIZ1B007)	2015/2016 - summer	45	30	0	0	0	5.5 E	6	07.02.2016
3.	Chemistry (FIZ1C100)	2015/2016 - summer	30	0	30	0	0	4.0 Z	4	17.06.2016
4.	Electricity and magnetism (FIZ1B008)	2015/2016 - summer	30	30	0	0	0	4.5 E	5	27.06.2016
5.	Ethics of science and technology (FIZ1D002)	2015/2016 - summer	0	0	0	0	15	5.0 Z	1	22.01.2013
6.	English I (FIZ1A001)	2015/2016 - summer	0	30	0	0	0	5.0 Z	2	27.06.2013
7.	Basics of operating systems and programming (FIZ1C101)	2015/2016 - summer	15	0	45	0	0	5.5 Z	3	07.02.2016
8.	Physics laboratory I (mechanics and heat) (FIZ1B009)	2015/2016 - summer	0	0	45	0	0	5.0 Z	3	18.06.2013
9.	Physical education I (FIZ1A006)	2015/2016 - summer	0	30	0	0	0	5.0 Z	1	08.02.2014

Grade average 4,767 ECTS sum 30

Semester 3

Lp.	Subject	Date	L	C	Lb	P	S	Grade	ECTS	Grade date
1.	Waves and optics (FIZ1C102)	2016/2017 - winter	30	30	0	0	0	E	5	
2.	Environmental physics (FIZ1C103)	2016/2017 - winter	30	0	0	0	15	5.0 Z	3	12.10.2016
3.	English II (FIZ1A002)	2016/2017 - winter	0	30	0	0	0	4.0 Z	2	26.06.2014
4.	Classical mechanics (FIZ1C104)	2016/2017 - winter	30	45	0	0	0	E	7	
5.	Physics laboratory I (electricity and magnetism) (FIZ1C105)	2016/2017 - winter	0	0	45	0	0	5.0 Z	3	28.06.2013
6.	Differential and integral equations in physics and engineering (FIZ1C106)	2016/2017 - winter	30	30	0	0	0	E	5	
7.	Introduction to numerical methods (FIZ1C107)	2016/2017 - winter	15	0	45	0	0	5.0 Z	4	11.10.2016
8.	Physical education II (FIZ1A007)	2016/2017 - winter	0	30	0	0	0	5.0 Z	1	19.06.2014

Grade average 0,000 ECTS sum 30

Semester 4

Lp.	Subject	Date	L	C	Lb	P	S	Grade	ECTS	Grade date
1.	Electrodynamics I (FIZ1C108)	2015/2016 - summer	30	45	0	0	0	4.0 E	5	21.06.2016
2.	English III (FIZ1A003)	2015/2016 - summer	0	30	0	0	0	4.0 Z	2	11.02.2016
3.	Mathematical methods of physics I (FIZ1C110)	2015/2016 - summer	30	30	0	0	0	5.0 E	5	27.06.2016
4.	Basics of economics and management (FIZ1E001)	2015/2016 - summer	30	0	0	0	0	4.5 Z	2	30.06.2015
5.	Engineering drawing (FIZ1C112)	2015/2016 - summer	0	15	0	0	0	4.5 Z	1	25.01.2013
6.	Specialized seminar I (AP) (FIZ1C113)	2015/2016 - summer	0	0	0	0	15	4.5 Z	1	18.06.2016
7.	Introduction to electronics and electrical engineering (FIZ1C114)	2015/2016 - summer	30	0	30	0	0	5.0 Z	4	06.02.2013
8.	Introduction to modern physics (FIZ1C115)	2015/2016 - summer	30	30	0	0	0	4.5 E	5	28.06.2016

Grade average 4,540 ECTS sum 25

Semester 5

Lp.	Subject	Date	L	C	Lb	P	S	Grade	ECTS	Grade date
1.	English for physics, computer science and technology I (FIZ1A004)	2016/2017 - winter	0	30	0	0	0	3.5 Z	2	10.02.2015
2.	Quantum mechanics I (FIZ1C117)	2016/2017 - winter	30	30	0	0	0	E	5	
3.	Mathematical methods of physics II (FIZ1C118)	2016/2017 - winter	30	30	0	0	0	E	5	
4.	Atomic and nuclear physics laboratory (FIZ1C119)	2016/2017 - winter	0	0	45	0	0	Z	3	
5.	Business law (FIZ1E002)	2016/2017 - winter	15	0	0	0	0	4.5 Z	1	11.06.2015
6.	Specialized seminar II (AP) (FIZ1C120)	2016/2017 - winter	0	0	0	0	15	Z	1	
7.	Vacuum technology (FIZ1C121)	2016/2017 - winter	15	0	30	0	0	Z	3	
8.	Electronic circuits (FIZ1C122)	2016/2017 - winter	30	15	30	0	0	4.5 Z	4	04.02.2014

Grade average 0,000 ECTS sum 24

abbreviations used in the tables above:

L- lecture, C - classes, Lb- laboratories, P - project, S- seminar, Z – credit grade, E – examination grade

Studies average: 0,000 ECTS sum: 139

Grades scale:

2.0 unsatisfactory

- 3.0 satisfactory
- 3.5 quite good
- 4.0 good
- 4.5 more than good
- 5.0 very good
- 5.5 excellent

There is also possibility of earning credits for subjects without grades - named: Zal.

Certificate OF ACHIEVEMENT

This is to certify that

**Andrzej Marek
Reinke**

studied on an Intensive IELTS Preparation course at

KIE London Leicester Square

from 19/09/2016 to 30/09/2016

attended 36 out of 36 hours

and has achieved the following level

Higher Intermediate

Colm Dalton BA,
Director of Studies

30 September 2016

UK



Accredited by the
BRITISH COUNCIL
for the teaching of English in the UK

Ireland



Australia



New Zealand



Kaplan International English
in New Zealand is fully
accredited by NZQA.

Canada



USA





Volunteer Involvement Certificate

Organizers of the



would like to thank

Andrzej Reinke

for help and involvement in organizing

EUROPEAN ROVER CHALLENGE 2015

European Rover Challenge Coordinator

Marcin Wenda

**THE REGIONAL SCIENCE
AND TECHNOLOGY CENTER**

September 5-6, Podzamcze, Poland

www.roverchallenge.eu

#ERCPoland

Organizers of the



would like to thank

ANDRZEJ REINKE

for participating in the

EUROPEAN ROVER CHALLENGE 2016

Congress & Exhibition Centre
Podkarpackie, Poland
10-13.09.2016

ERC Teams Coordinator

A handwritten signature in black ink, appearing to read "Andrzej Reinke".

www.roverchallenge.eu

Honorary patronage



Ministry of Science
and Higher Education
Republic of Poland



Partners



PARP



SPACE PL
Polish Space Industry Association



MathWorks



DPS



SENER



PLATFORUM
STARTOWE



CTT



SpeedUp



ABM Space



Explorers

Media patronage



NATIONAL
GEOGRAPHIC
CHANNEL

WIEDZA i ŻYCIE

astrowatch.net

Space24



Link to
Poland



Production and media coverage



KAIZEN
MEDIA



ILLINOIS

05/05/2016

Andrzej Marek Reinke

has successfully completed

The 3D Printing Revolution

an online non-credit course authorized by University of Illinois at Urbana-Champaign
and offered through Coursera

A handwritten signature in black ink that reads "Aric Rindfleisch".

Aric Rindfleisch
John M. Jones Professor of Marketing
Head of the Department of Business Administration
College of Business
University of Illinois at Urbana-Champaign

COURSE CERTIFICATE



Verify at coursera.org/verify/KUXXKFMZL5LP

Coursera has confirmed the identity of this individual and
their participation in the course.



THE UNIVERSITY of EDINBURGH

08/11/2016

Andrzej Marek Reinke

has successfully completed

Astrobiology and the Search for Extraterrestrial Life

an online non-credit course authorized by The University of Edinburgh and offered through Coursera

A handwritten signature in black ink that appears to read "Charles Cockell".

Professor Charles Cockell
UK Centre for Astrobiology
University of Edinburgh, UK

COURSE CERTIFICATE



Verify at coursera.org/verify/SRK7BKXF3PPE

Coursera has confirmed the identity of this individual and their participation in the course.



UNIVERSITY *of*
ROCHESTER

08/02/2016

Andrzej Marek Reinke

has successfully completed

Confronting The Big Questions: Highlights of Modern Astronomy

an online non-credit course authorized by University of Rochester and offered through Coursera



Adam Frank, Ph.D.
Professor of Physics and Astronomy
University of Rochester

COURSE CERTIFICATE



Verify at coursera.org/verify/JSF62FDVEJEX

Coursera has confirmed the identity of this individual and their participation in the course.



03/25/2016

Andrzej Marek Reinke

has successfully completed

Control of Mobile Robots

an online non-credit course authorized by Georgia Institute of Technology and offered through Coursera

A handwritten signature in black ink, appearing to read "Magnus Egerstedt".

Magnus Egerstedt
Professor
School of Electrical and Computer Engineering
College of Engineering
Georgia Institute of Technology

COURSE CERTIFICATE



Verify at coursera.org/verify/47KTXBCVCRS2

Coursera has confirmed the identity of this individual and their participation in the course.



UNIVERSITY *of* PENNSYLVANIA

03/14/2016

Andrzej Marek Reinke

has successfully completed

Robotics: Aerial Robotics

an online non-credit course authorized by University of Pennsylvania and offered through Coursera

Vijay Kumar

Vijay Kumar
Nemirovsky Family Dean of Penn Engineering

COURSE CERTIFICATE



Verify at coursera.org/verify/U2LTHGWUKUEU
Coursera has confirmed the identity of this individual and
their participation in the course.



03/16/2016

Andrzej Marek Reinke

has successfully completed

Robotics: Computational Motion Planning

an online non-credit course authorized by University of Pennsylvania and offered through Coursera

A handwritten signature in blue ink that appears to read "CJ Taylor".

CJ Taylor
Professor, Computer and Information Science

COURSE CERTIFICATE



Verify at coursera.org/verify/RJPNSKEGGDXA

Coursera has confirmed the identity of this individual and their participation in the course.



Penn
UNIVERSITY OF PENNSYLVANIA

03/30/2016

Andrzej Marek Reinke

has successfully completed

Robotics: Mobility

an online non-credit course authorized by University of Pennsylvania and offered through Coursera



Daniel E. Koditschek
Professor, Electrical and Systems Engineering

COURSE CERTIFICATE



Verify at coursera.org/verify/HJ4NAD5E6GVH

Coursera has confirmed the identity of this individual and
their participation in the course.