

#### **IAESTE India**

1st Floor, Academic Block-4, MIT, Manipal Karnataka-576104. Phone No.: +91820-2925040 Email: exchange.india@iaeste.in Website: www.iaeste.in



Ref. No.: IN-2017-0101-MJ

#### WORK OFFERED

**Employer information** 

Employer: Manipal University Jaipur

Website: jaipur.manipal.edu Working place: Jaipur

Nearest international airport: Jaipur Airport

Nearest public transport: Bus/Taxi

Business or products:

Number of employees: 450 Working hours per week: 40 Daily working hours: 8

Student required

MECHANICAL\_ENGINEERING|ELECTRICAL\_ENGIN

**EERING** 

Language required for training: English (Certification Required)

(1=excellent, 2=good, 3=fair) Excellent

Specialisation:

AUTOMOTIVE\_ENGINEERING|ELECTRONICS

Other requirements: MATLAB

Previous Training Required: No

Work offered

Kind of work: Research will be followed on Retrofitting of Solar Electric Vehicle with Intelligent Battery Pack Design and Flexible Charging Station

Categories:

Research and development: Yes Professional

Number of weeks offered:

Minimum: 8 Maximum: 10

Within the months: 1-Jul-2017 to 24-Sept-2017

Gross pay: 5000 ₹ per Month Deductions to be expected: 0 %

Accommodation

Lodging will be arranged by: IAESTE MUJ

Canteen available at work: Yes

Estimated cost of lodging: ₹ 0 per Month Estimated cost of living incl. lodging: ₹ 5000 per Month

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PLEASE SEND NOMINATIONS BY: EMAIL ONLY

Date: 31 October 2016

NUMBER OF HARD COPIES: 0

Deadline for nomination:

31 March 2017



On behalf of receiving country:

National Secretary Yash Dhanuka

NOTE: The work offered may be suitably altered to suit the current requirement of the project and interest & skill of the student.



#### STUDENT NOMINATION

Ref. No. IN-2017-0101-MJ

22nd January 1994

Warszawa

Warszawa

15 Apr 2018

Male

Polish AU 6005878

**Personal information** 

Family name: Pechcin First and/or other names: Marcin

Home address: Witoszynskiego 1/11, 03-983 Warszawa

Poland

Address during terms:

Phone no: +48 698576111 Alternative phone no: +48 22 6712661

Email: marcin.pechcin@iaeste.pl

**Study information** 

Field of study: Electrotechnical Engineering

Specialization: Electromechatronics of

Vehicles and Electric Machines

Knowledge of languages:

Date of birth:

Place of birth:

Nationality:

Valid until:

Passport no.: Place of issue:

Gender:

(1=excellent, 2=good, 3=fair)

Polish – native English – excellent

Completed years of study: 3.5 Total years required: 5 (3.5 – bachelor degree + 1.5 – master degree)

Working related information

Desired period of training: 8 weeks: 03 Jul 2017 – 28 Aug 2017

Do you wish lodging to be found for you? X Yes No

#### Disclaimer

- I agree that the personal data, which has been provided to IAESTE, may be passed to IAESTE member countries (full members, associate members and cooperating institutions) and potential employers for the purpose of arranging my traineeship. Also my personal data may be provided to government authorities for the issuance of visa/work permit purpose.
- I am aware that I am not allowed to contact the company or the Receiving Country before being accepted. You are accepted for this training offer only after receipt of the IAESTE acceptance form.

Rediein

• I confirm that all the data I provide is correct.

Date: Student's signature:

06 Mar 2017

For internal use

Date: On behalf of sending country:

Marcin Pechcin Witoszynskiego 1/11, 03-983 Warszawa, Poland +48 698576111 marcin.pechcin@iaeste.pl

Dear Sir or Madam,

I am writing in response to your internship offer. I am an engineer and a master degree student of Electrical Engineering at the Warsaw University of Technology. This University as the one of the best in Poland provides a solid background in general engineering, which results in its students having no difficulties when faced with task not necessarily within their area of expertise, so it will not be a problem to adapt to any project which I will be given.

In the course of my studies, I have gained competence in all electrical topics, such as machines and drive, classic and renewable energy sources, electrical installations, lightning technology, electrical power engineering, measurements, engineering graphics and machine design. I am deeply interested in solving engineering problems and if problem turns out to be more complicated it makes me more interested to resolve it.

One of the biggest task which I had to undertake during my studies until this moment and did it successfully, was project of my bachelor thesis. In this project I analyzed available solutions, designed and built model of electronic commutator for BLDC drive for personal electrical vehicles. I focused on optimizing the use of the energy available in modern battery packs and regenerative braking capabilities. During preparations of my thesis I made simulations in Matlab Simulink and PSIM software. Additionally, using specialized LabView software based on Virtual Measurement Instrument I tested prototype model of commutator and compared the results with previous made simulations.

I am a keen and fast learner, eager to take on new tasks. For three years I have been a member of Students unions like IAESTE association and Students Union of Faculty of Electrical Engineering. Given that my duties involve overseeing the projects carried out within the organization where I learned how work in group of people and be responsible for the project entrusted to me. I am also the member of the IAESTE Warsaw which allowed me to gain the ability to direct contact with a large companies.

I am a hardworking person, one that can be entrusted wide range of tasks that I then conscientiously carry through. One of my main hobbies is traveling what gives me an opportunity to learn about different cultures of the world.

For the above reasons I feel I would successfully fulfill my duties as a trainee at your company. I wait in eager anticipation to hear from you at your earliest convenience.

Yours faithfully,

Hedrein

#### **Marcin Pechcin**

Addres: Witoszyńskiego 1/11, 03-983 Warszawa

Phone: +48 698 576 111

E-mail: pechcinmarcin@gmail.com

Date of birth: 22nd January 1994

#### Education

02/2017 - today
Warsaw University of Technology, Faculty of Electrical Engineering, specialty
Electromechatronics of Vehicles and Electric Machines – master degree
Warsaw University of Technology, Faculty of Electrical Engineering, specialty
Electromechatronics of Vehicles and Electric Machines – bachelor degree
09/2010 - 05/2013
06/2011 - 07/2011
Warsaw University of Technology, Faculty of Electrical Engineering, specialty
Electromechatronics of Vehicles and Electrical Engineering, specialty
Warsaw University of Technology, Faculty of Electrical Engineering, specialty
Warsaw University of Technology, Faculty of Electrical Engineering, specialty
Warsaw University of Technology, Faculty of Electrical Engineering, specialty
Warsaw University of Technology, Faculty of Electrical Engineering, specialty
Electromechatronics of Vehicles and Electric Machines – bachelor degree
University of Technology, Faculty of Electrical Engineering, specialty
Electromechatronics of Vehicles and Electric Machines – bachelor degree
University of Technology, Faculty of Electrical Engineering, specialty
Electromechatronics of Vehicles and Electric Machines – bachelor degree
University of Technology, Faculty of Electrical Engineering, specialty
Electromechatronics of Vehicles and Electrical Engineering, specialty
Electromechatronics of Vehicles and Electrical Engineering, specialty

#### ■ Work Experience

07/2016 – 08/2016

O7/2015 – 08/2015

Apprenticeships in Technokabel S.A. as an assistant of Engineer of Automation

Working on an independent position, "Maintenance of the electrical installation"

in the company: Etykiety.pl Etigraf SP. Z O.O.

O4/2013 – 01/2014

Steward at the National Stadium, participation in several mass events, congresses and concerts

#### Social and additional activities

- Member of the Students' Union of Faculty of Electrical Engineering Warsaw University of Technology cadence 2015, 2016, 2017
- Member of IAESTE at the Warsaw University of Technology

#### Known Languages

Polish - Native Speaker English - excellent German – basic

#### Other Skills

- SEP ( Polish Association of electricians permission for working with electricity) category E (exploitation) up to 1 kV
- · Driving license
- Autodesk Revit Structure basic level course
- Computer skils: (Microsoft Office, AutoCad, Matlab, PSIM powersim)
- English language courses organized by the School of English TEACHER in the years 2011 2012, CEFR Level B2
- 2012-2013 course of architectural drawing
- · English exam Level B2
- English course preparing to IELTS exam

#### Interests

- technical innovations
- automotive
- skiing
- windsurfing
- travels



## IAESTE THE SHEET MUST BE COMPLETED AND SENT BACK WITH O FORM!

Name: Country: Ref. No.:

Marcin Pechcin Poland IN-2017-0101MJ

List of subjects studied:

Lista przedmiotów kierunkowych

Physics 1

**Engineering Design Graphics** 

Programming Languages and Methodology 1

Mathematics 1

Intellectual Property Law Energy Conversions

Physical Education and Sports 1

Physics 2

Programming Languages and Methodology 2

Mathematics 2
Electrical Materials
Numerical Methods
Electrical Measurements
Fundamentals of Electronics
Fundamental of Mechanics
Base of Management

Energy Conversions - laboratory

Operating Systems and Computer Networks

Circuit Theory 1

Physical Education and Sports 2 Electrical Measurements Laboratory Fundamentals of Electromagnetism Fundamentals of Electronics lab

Innovative Enterprise
Circuit Theory 2
Control Theory

Power electronic systems

Digital Technology

Physical Education and Sports 3

Foreign Language 1

Safety Operating of Electrical Devices

Computer Aided Analysis and Design of Electrical

Circuits

**Electrical Machines** 

Non-electrical Measurements Laboratory

Electric Drive

Fundamentals of Electrical Power Engineering

Fundamentals of Electromagnetism lab

Fundamentals of Electroheat

Fundamentals of Microprocessor Technology Programmable controllers in automation

High Voltage Technology

Control Theory lab

Physical Education and Sports 4

Foreign Language 2
Foreign Language 3
Electric Apparaus
Digital Signal Processing
Electrical Installations

Electromagnetic Compatibility Electrical Machines Laboratory Electric Drives Laboratory

Introduction to Electrical Power Engineering - Lab.

Fundamentals of Automotive Mechatronics Fundamentals of Microprocessing Engineering

Introduction to Lighting Technology

Programmable controllers in automation - Lab.

High Voltage Technology Laboratory

Electric Traction Foreign Language 4 Foreign Language 5

Electroenergetics of Transport Systems Electroconstructions of Traction Vehicles

**Automotive Mechatronics** 

Electrical Machines in the robotics and computer

science

Methods and techniques of testing electrical

machines and devices

Design methods of electrical machines and devices

Environmental Impact of electric current Automotive Lighting Technology Automotive computer systems

Supplay and control of electrical machines

Diploma practice

Electrochemical and Renewable Energy Sources

Traction power supply catenary

Electroenergetics of Transport Systems lab Electroconstructions of Traction Vehicles lab Diagnostics and Measuring Systems of Vehicles

CAD methods in electrical engineering Design methods of electrical machines

Quality systems management Bachelor of Science Thesis

**BSc Seminar** 

#### Details of any previous practical experience:

Last year I participated in the preparation of electric drive for production line in factory. Also as a member of maintenance team I serviced the production lines and electrical installations.

#### Details of exact field of training you wish to undertake:

I would like to expand my knowledge and develop skills in designing and constructing electric vehicles and battery pack power systems.



# RSAW UNIVERSITY OF TECHNOLOGY L.CULTY OF ELECTRICAL ENGINEERING DEAN'S OFFICE 00-661 WARSZAWA, PL. POLITECHNIKI 1 Phone: +4822 234 59 80

## FACULTY OF ELECTRICAL ENGINEERING

Warsaw University of Technology

Bachelor of Science Degree

### Transcript of records

Lastname: Pechcin

Student ID: 260847

Birthdate: 22.01.1994

Names: Marcin

Birthplace: Warszawa

First semester of study: 2013Z

Academic semester: 2013Z (semester of study: 1)

Course name	Type of classes, hours in semester, fo	Grade	ECTS	
Physics 1	Lc:45 E:30	Exam	3.0	8
Engineering Design Graphics	Lc:15 Lb:30 P:15	Pass	4.0	4
Programming Languages and Methodology 1	Lc:30 Lb:30	Pass	4.0	4
Mathematics 1	Lc:60 E:60	Exam	4.0	10
Intellectual Property Law	Lc:30	Pass	4.5	2
Energy Conversions	Lc:30	Exam	4.0	2
Physical Education and Sports 1	E:30	Pass	Zal	0
			Sum:	30

Academic semester: 2013Z (semester of study: 1) - passed

#### Academic semester: 2014L (semester of study: 2)

Course name	Type of classes, hours in semest	er, form of pass	Grade	ECTS
Physics 2	Lc:30	Exam	3.0	3
Programming Languages and Methodology 2	P:15	Pass	4.0	1
Mathematics 2	Lc:30 E:30	Exam	3.0	5
Electrical Materials	Lc:15 Lb:15	Pass	4.0	2
Numerical Methods	Lc:30	Pass	3.5	3
Electrical Measurements	Lc:30	Exam	4.5	2
Fundamentals of Electronics	Lc:30	Exam	4.5	2
Fundamental of Mechanics	Lc:30	Exam	4.0	2
Base of Management	Lc:30	Pass	3.5	2
Energy Conversions - laboratory	Lb:15	Pass	4.0	1
Operating Systems and Computer Networks	Lc:15 Lb:15	Pass	5.0	2
Circuit Theory 1	Lc:30 E:30	Exam	3.5	5
Physical Education and Sports 2	E:30	Pass	Zal	0
	4		Sum:	30

Academic semester: 2014L (semester of study: 2) - passed

#### Academic semester: 2014Z (semester of study: 3)

Course name	Type of classes, hours in semester,	Grade	ECTS	
Electrical Measurements Laboratory	Lb:30	Pass	4.5	2
Fundamentals of Electromagnetism	Le:30 E:15	Exam	3.0	4
Fundamentals of Electronics lab	Lb:30	Pass	4.0	2

Warsaw, 3.03.2017

Dean's signature

VICE DEAN FOR STUDY DR INŽ. WŁODZIMIERZ DĄBROWSKI 1

<sup>\*</sup> Lc - Lecture, Lb - Laboratory, E - Exercise, P - Project, S - Seminar

<sup>\*\*</sup> Assessment issued electronically by the course coordinator



#### WARSAW UNIVERSITY OF TECHNOLOGY FACULTY OF ELECTRICAL ENGINEERING DEAN'S OFFICE 00-661 WARSZAWA, PL. POLITECHNIKI 1 Phone: +4822 234 59 80

FACULTY OF ELECTRICAL ENGINEERING

Warsaw University of Technology

Bachelor of Science Degree

#### Transcript of records

Lastname: Pechcin
Names: Marcin

Birthdate: **22.01.1994**Birthplace: **Warszawa** 

Student ID: 260847

First semester of study: 2013Z

Academic semester: 2014Z (semester of study: 3)

Course name	Type of classes, hours in semester, fo	rm of pass	Grade	ECTS
Innovative Enterprise	Lc:15 P:15	Pass	4.5	2
Circuit Theory 2	Lc:30 Lb:30 E:30	Exam	3.5	8
Control Theory	Lc:30 E:15	Exam	3.5	4
Power electronic systems	Lc:15 Lb:15	Pass	3.5	2
Digital Technology	Lc:15 Lb:15	Pass	4.0	2
Physical Education and Sports 3	E:30	Pass	Zal	0
Foreign Language (SJO) 1		Pass	4.0	4
			Sum:	30

Academic semester: 2014Z (semester of study: 3) - passed

#### Academic semester: 2015L (semester of study: 4)

Course name Type of	classes, hours in semester	r, form of pass	Grade	ECTS
Safety Operating of Electrical Devices	Lc:30	Pass	3.5	2
Computer Aided Analysis and Design of Electrical Circuits	Lb:30	Pass	5.0	2
Electrical Machines	Lc:30	Exam	3.0	3
Nonelectrical Values Metrology	Lc:15 Lb:15	Pass	3.0	2
Electric Drive	Lc:30	Exam	4.0	2
Introduction to Electrical Power Engineering	Lc:30	Exam	4.5	3
Fundamentals of Electromagnetism lab	Lb:15	Pass	3.5	2
Fundamentals of Electroheat	Lc:15	Pass	3.0	1
Fundamentals of Microprocessor Technology	Lc:30	Exam	3.0	2
Programmable controllers in automation	Lc:15 Lb:15	Pass	Zw	0
High Voltage Technology	Lc:30	Exam	4.0	3
Control Theory lab	Lb:30	Pass	4.5	3
Programmable controllers in automation	Lc:15	Pass	3.5	1
Physical Education and Sports 4	E:30	Pass	Zal	0
Foreign Language (SJO) 2		Pass	3.0	2
Foreign Language (SJO) 3		Pass	4.5	2
			Sum:	30

Academic semester: 2015L (semester of study: 4) - passed

VICE DEAN FOR STUDY
DR INŽ. WŁODZIMIERZ DĄBROWSKI

Dean's signature

Warsaw, 3.03.2017

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WARSAW UNIVERSITY OF TECHNOLOGY FACULTY OF ELECTRICAL ENGINEERING DEAN'S OFFICE 00-661 WARSZAWA, PL. POLITECHNIKI 1 Phone: +4822 234 59 80 -1-

FACULTY OF ELECTRICAL ENGINEERING

Warsaw University of Technology

Bachelor of Science Degree

### Transcript of records

Lastname: Pechcin

Birthdate: **22.01.1994** Birthplace: **Warszawa** 

Names: Marcin Student ID: 260847

First semester of study: 2013Z

Academic semester: 2015Z (semester of study: 5)

Course name	ype of classes, hours in semester,	form of pass	Grade	ECTS
Electric Apparatus	Lc:15 Lb:15	Pass	4.0	2
Digital Signal Processing	Lc:15 Lb:15	Pass	4.0	3
Electrical Installations	Lc:15 P:15	Pass	4.0	2
Electromagnetic Compatibility	Lc:15 Lb:15	Exam	4.0	3
Electrical Machines Laboratory	Lb:45	Pass	3.5	3
Electric Drives - laboratory	Lb:15	Pass	3.0	1
Introduction to Electrical Power Engineering - Lab.	Lb:30	Pass	4.0	2
Fundamentals of automotive mechatronics	Lc:15	Pass	5.0	1
Fundamentals of Microprocessing Engineering	Lb:30	Pass	3.5	2
Introduction to Lighting Technology	Lc:30	Pass	4.0	2
Programmable Controllers in Automation - laboratory	Lb:15	Pass	3.0	1
High Voltage Technology lab	Lb:30	Pass	4.0	2
Electric traction	Lc:15 Lb:15	Pass	4.0	2
B2 exam		Exam	4.5	0
Foreign Language (SJO) 4		Pass	3.5	2
Foreign Language (SJO) 5		Pass	4.0	2
			Sum:	30

Academic semester: 2015Z (semester of study: 5) - passed

#### Academic semester: 2016L (semester of study: 6)

Course name Type of class	ses, hours in semester	, form of pass	Grade	<b>ECTS</b>
Electroenergetics of Transport Systems	Lc:15 P:30	Pass	4.5	4
Electroconstructions of Traction Vehicles	Lc:15 P:30	Exam	4.5	5
Automotive Mechatronics	Lc:15 Lb:30	Exam	3.5	4
Electrical Machines in the robotics and computer science	Lc:30 Lb:30	Exam	4.5	4
Methods and techniques of testing electrical machines and devices	Lc:15 Lb:15	Pass	3.5	2
Design methods of electrical machines and devices	Lc:15	Pass	3.5	1
Environmental Impact of electric current	Lc:15 Lb:15	Pass	3.5	2
Automotive Lighting Technology	Lc:30 Lb:30	Exam	4.0	5
Automotive computer systems	Lc:15	Pass	4.0	1
Supplay and control of electrical machines	Lc:15 Lb:15	Pass	4.5	2
Diploma practice	P:120	Pass	Zal	4
	300000000000000000000000000000000000000		Sum:	34

Warsaw, 3.03.2017

\*\* Assessment issued electronically by the course coordinator

Dean's signature VICE DEAN FOR STUDY DR INŻ. WŁODZIMIERZ DĄBROWSKI

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<sup>\*</sup> Lc - Lecture, Lb - Laboratory, E - Exercise, P - Project, S - Seminar





#### **FACULTY OF ELECTRICAL ENGINEERING**

Warsaw University of Technology

Bachelor of Science Degree

### Transcript of records

Lastname: Pechcin

Birthdate: 22.01.1994

Names: Marcin Student ID: 260847

Birthplace: Warszawa

First semester of study: 2013Z

Academic semester: 2016L (semester of study: 6)

Course name

Type of classes, hours in semester, form of pass Grade

Academic semester: 2016L (semester of study: 6) - passed

Academic semester: 2016Z (semester of study: 7)

Course name Ty	pe of classes, hours in semeste	r, form of pass	Grade	ECTS
Electrochemical and Renewable Energy Sources	Lc:15	Pass	4.5	1
Traction power supply catenary	P:30	Pass	5.0	2
Electroenergetics of Transport Systems lab	Lb:15	Pass	3.0	1
Electroconstructions of Traction Vehicles lab	Lb:15	Pass	3.5	1
Diagnostics and Measuring Systems of Vehicles	Lb:30	Pass	3.0	2
CAD methods in electrical engineering	Lc:15	Pass	4.5	1
Design methods of electrical machines and devices, project	P:30	Pass	3.5	2
Quality systems management	Lc:15 P:15	Pass	3.0	2
Bachelor of Science Thesis		Pass	Zal	15
BSc Seminar	S:30	Pass	4.0	3
			Sum:	30

Academic semester: 2016Z (semester of study: 7) - passed

End of records list

VICE DEAN FOR STUDY Z. WŁODZIMIERZ DĄBROWSKI

Dean's signature

Warsaw, 3.03.2017

<sup>\*</sup> Lc - Lecture, Lb - Laboratory, E - Exercise, P - Project, S - Seminar

<sup>\*\*</sup> Assessment issued electronically by the course coordinator

#### WARSAW UNIVERSITY OF TECHNOLOGY FACULTY OF ELECTRICAL ENGINEERING DEAN'S OFFICE 00-661 WARSZAWA, PL. POLITECHNIKI 1 Phone: +4822 234 59 80

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FACULTY OF ELECTRICAL ENGINEERING

Warsaw University of Technology

Masters Degree

### Transcript of records

Lastname: Pechcin

Birthdate: 22.01.1994

Names: Marcin

Birthplace: Warszawa

Student ID: 260847

First semester of study: 2017L

Academic semester: 2017L (semester of study: 1) - in progress

Course name	Type of classes, hours in semester, for	orm of pass	Grade	ECTS
Electrical Power Engineering of Transport Systems	Lc:30 Lb:15	Pass	-	3
Design of electrical machines and devices	Lc:30 P:15	Exam	-	3
Mathematics - Optimization Methods	Lc:30 E:15	Pass	-	3
Modeling Automotive Lighting Devices	Lc:15	Pass	-	2
Electric traction theory	Lc:30 P:15	Exam	-	3
Automotive Electronics	Lc:30	Exam	-	2
Windings and Parameters of Electrical Machines	Lc:15 P:15	Pass	-	2
Modern Power Sources for Vehicles	Lc:30	Pass	-	2
Economics in Electrical Engineering	Lc:15 Lb:15	Pass	_	2
Numerical Methods in Technic	Lc:30 E:15	Exam	-	3
Chosen Aspects of Circuit Theory	Lc:30	Pass	-	2
History of Electrical Engineering	Lc:15	Pass	-	1
Public Appearances	E:15	Pass	-	2
			Sum:	0

Academic semester: 2017L (semester of study: 1) - not passed

End of records list

WARSAW UNIVERSITY OF JECHNOLOGY FACULTY OF ELECTRICAL PASINEERING

VICE DEAN FOR STUDY DR INŻ. WŁODZIMIERZ DĄBROWSKI

Dean's signature

Warsaw, 3.03.2017

<sup>\*</sup> Lc - Lecture, Lb - Laboratory, E - Exercise, P - Project, S - Seminar

<sup>\*\*</sup> Assessment issued electronically by the course coordinator



IAESTE - Language Certificate
This sheet must be completed and sent with the Student Nomination if required.

Tick Language to be tested

English &	French	German	Spanish	Other	Please specify	
English A	French	German	Spanish	Other $\Box$	Please specify	_

Surname: PECUCIN	First name:	MARCIN
Surname: PECUCIN  Nationality: POUSH	Study Course:	EVECTRICAL ENGINEERING
How long have you studied this Language?	Last Class:	2016
Examinations Achieved and Grade:	Dates of Examir	nations:
Please provide additional Certificates if available EXCELLENT - 1	JAN	MARY 2017
To be completed by	the Examiner	
Knowledge of Required Language (Please tick one box for each of the four langu	age sections)	
1. Comprehension		
Understands conversation and reads without	out difficulty	~
Understands almost everything spoken slo		
Understands with difficulty	11	
Cannot follow conversation and written wo	rd	
2. Speaking		
Speaks fluently, correctly and is easily und	erstood	ri⁄
Is understood but is not completely correct	and fluent	
Speaks haltingly with many mistakes		
Cannot speak this language		
3. Writing		
Writes accurately with ease		N
Writes slowly with occasional errors		
Writes with difficulty and makes many error	rs	
Has no written ability in this Language		
4. Reading		
Reads quickly with understanding		ris
Reads slowly, understanding only some of	the text	
Has difficulty understanding and must look		
Cannot understand simple texts		
Overall Conclusion		Komitet Lokalny IAESTE Studentów Politechniki Warszawsko
	□ Poor (	Centrum Rucha Studenchego pok A10.1 uf. Waryne Joegu 12
		00-631 varietiena tel. +48 22 254 91 03
Additional Comments:		strona: www.iseste.pv/edu.pl e-mail: pw.warszawa@iaeste.pl

Examiner KOPNECIA DOMITER	Position:	LC PRESIPENT	T DESTEPH
Place and Date:  LAPSAN 22.02, 2017	Signature:	Kamelle 1	O well

PhD. Adam Biernat Faculty of Electrical Engineering, Warsaw University of Technology

#### TO WHOM IT MAY CONCERN

As a Mr. Marcin Pechcin bachelor thesis supervisor, I would like to take this opportunity to recommend Marcin for offered research work on Retrofitting of Solar Electric Vehicle with Intelligent Battery Pack Design and Flexible Charging Station.

I had chance to be acquainted with him for one year of his thesis completion work in Division of Electrical Machines laboratory and during this time Mr Pechcin proved his very good skills while solving problems concerning of design effective drive system for Personal Electrical Vehicle powered from modern batteries. Mr Pechcin demonstrated good cooperation skills, and technique of establishing cooperation with another scientific centers and companies. He was proving an exemplary dedication to the task he is given.

Aday Breizet

## WARSAW UNIVERSITY OF TECHNOLOGY The Faculty of Electrical Engineering





03.14sm-2014, Warsaw

Deputy Dean of The Faculty of Electrical Engineering, Warsaw University of Technology

#### TO WHOM IT MAY CONCERN

As the Deputy Dean of the Faculty of Electrical Engineering, I would like to take this opportunity to recommend Marcin for your program.

I have known him for two years and during this time Mr Pechcin was well organized and demonstrated good cooperation skills. He has been also an active member of the Student Union for this two years. In this period of time he has been carrying out many projects, showing his team-oriented behavior. He was proving an exemplary dedication to the task he is given.

WARSAW UNIVERSITY OF TECHNOLOGY FACULTY OF ELECTRICAL ENGINEERING

DR INZ. WLODZIMIERZ DABROWSKI

#### WARSAW UNIVERSITY OF TECHNOLOGY



THE FACULTY OF ELECTRICAL ENGINEERING 00-661 WARSZAWA, PL. POLITECHNIKI 1 GG 132 Phone +4822 6292531, Fax +4822 625 75 24



Warsaw, 3rd March 2017

#### CERTIFICATE

Zaświadczenie

This is to certify that Mr Marcin Pechcin born on 22.01.1994,

Niniejszym zaświadcza się, że Pani/Pan

ur. dnia

father's name: Andrzej

imię ojca

in the academic year 2016/2017 is enrolled as a student of the I year (1st semester) Masters Degree

jest w roku ak.

studentem

(mode and type of study\* and the year or semester of study)

(forma i rodzaj studiów\* oraz rok lub semestr studiów)

in the field of study Electrical Engineering at the Faculty of Electrical Engineering

Mr Marcin Pechcin started the studies on 20.02.2017, Pani/Pan rozpoczął(ła) studia dnia

the expected date of her/his graduation is 15.09.2018. planowany termin ukończenia studiów upływa

VICE DEAN FOR STUDY

DR INZ WI ODZIMIERZ DARROWSKI

(signature of the director of the unit conducting the study or a person authorized) (podpis kierownika jednostki prowadzącej studia lub osoby przez niego upoważnionej)

