



上海交通大学

RECORDS FOR UNDERGRADUATE

School of Mechanical Engineering

STUID: 5060209010

CLASS: F0602001

MAJOR: Thermal Energy and Power Engineering (Refrigeration and Air Conditioning)

NAME: Bao Qian

ACADEMIC YEAR: 2006-2007 SEMESTER ONE				ACADEMIC YEAR: 2006-2007 SEMESTER TWO			
CODE	COURSES	CREDIT SCORE		CODE	COURSES	CREDIT SCORE	
BI001	Introduction to Life Science	2	85	CS053	Programming Abstractions (C++)	3	82
CA001	Chemistry	2	86	EN002	University English II	4	89
CA002	Chemistry Lab	2	79	MA012	Linear Algebra	2.5	83
ch002	Chinese	2	P	MA083	Calculus II	4	68
EN001	University English I	4	91	ME102	Machine Design (I) (Drawing II)	2	91
JC001	Introduction to Communication	2	94	ME202	Introduction to Mechanical Engineering	2	84
MA082	Calculus I	6	74	MU004	Music Drama, Movie of Singing & Dancing	2	85
ME101	Machine Design (I) (Drawing I)	2	98	PE002	Physical Education II	1	92
ME103	Frontiers of Mechanical Engineering	2	88	PH001	Physics I	4	88
PE001	Physical Education I	1	82	PH006	Physics Lab I	1.5	80
TH009	Circumstance and Policy	1	80	SP056	Biological Intelligence and Biological Computer	1	80
TH021	Modern Chinese History	2	78	TH004	Military Theory	1	80
TH023	Morals and Ethics & Law Fundamentals II	1	82.5	TH009	Circumstance and Policy	1	85
				TH022	Morals and Ethics & Law Fundamentals I	2	84
ACADEMIC YEAR: 2007-2008 SEMESTER ONE				ACADEMIC YEAR: 2007-2008 SEMESTER TWO			
CODE	COURSES	CREDIT SCORE		CODE	COURSES	CREDIT SCORE	
EM001	Theoretical Mechanics	4.5	94	EE007	Electrical and Electronic Technology	3.5	92
EN003	University English III	4	91	EE008	Electrical and Electronic Technology Lab.	1.5	80
JA001	Basic Japanese I	4	98.6	EM003	Engineering Fluid Mechanics	3	92
MA031	Probability and Mathematical Statistics	2.5	80	EM015	Materials Mechanics	2.5	93
ME008	Metalworking Practice	6	A-	EN004	University English IV	4	85
PE003	Physical Education III	1	88	I0201	Industrial Engineering	2	88
PH002	Physics II	4	85	ME201	Graphics Process Technology	2	82
PH007	Physics Lab II	1.5	84	ME317	Materials Forming Technology	3	91
TH009	Circumstance and Policy	1	94	ME351	CAD-UG (I)	2	85
				PE004	Physical Education IV	1	85
				P0201	Engineering Thermodynamics I	2	90
				P0202	Energy Sources and Sustainable Development	2	85
				TH009	Circumstance and Policy	1	82
				TH025	An Introduction to Mao Zedong Thought, Deng Xiaoping Theory & Important Idea of the Three Representatives	3	P
ACADEMIC YEAR: 2008-2009 SEMESTER ONE				ACADEMIC YEAR: 2008-2009 SEMESTER TWO			
CODE	COURSES	CREDIT SCORE		CODE	COURSES	CREDIT SCORE	
MA023	Mathematical Modeling	2	77	EM357	Mechanical Vibration	2	94
ME308	Fundamentals of Control Theory I	3	60	ME309	Control Technology II (Mechatronics Control)	2.5	72
ME313	Control Technology I (Fluid Controlling)	2	85	ME310	Course Project of Fundamentals of Control Technology	1.5	91
ME316	Fundamentals of Machine Design	3	84	ME314	Control Technology III (Computer Controlling System)	2	94
ME318	Course Project of Fundamentals of Machine Design	3	70	ME352	CAE-ANSYS (II)	2	98
MU025	Appreciation of Japanese Music	2	78	P0304	Thermal Energy and Power Compositive Experiment	1	75
P0303	Engineering Thermodynamics II	1.5	94	P0305	Fundamentals of Thermal Energy and Power Engineering	3	84
P0306	Heat Transfer and Mass Transfer	3.5	88	P0309	Aerodynamics and Two-phase Flow	2	91
P0308	Combustion Theory	2.5	77	P0340	Refrigeration Theory and Equipment	3	74
S0026	Undergraduate Career Development	1	88	P0441	Cryogenic Technology and Applications	2	84
TH024	Marxism Basic Theory	2	73				
ACADEMIC YEAR: 2009-2010 SEMESTER ONE				ACADEMIC YEAR: 2009-2010 SEMESTER TWO			
CODE	COURSES	CREDIT SCORE		CODE	COURSES	CREDIT SCORE	
CS000	Introduction to Computer Technology	0	P	BS025	Undergraduate Project (Thesis)	27	B+
EC005	Microeconomics	2	94	HI031	Modern Japanese History	2	75
IM002	Corporation MIS and Knowledge Engineering	2	92				
ME489	Product Design Theory, Methods and Tools	2	84				
PE005	Physical Education V	1	60				
P0307	Testing Technique	2.5	85				
P0341	Air Conditioning	2	90				
P0401	Professional Course Project	4.5	81				
P0402	Computational Fluid and Heat Transfer	2.5	96				
P0440	Refrigerating Plant and Its Automatic Control	3	74				
XP427	Engineering Internship	6	A				

NOTE1-MARK "△" Means the Course Failed NOTE2-The sheet should be stamped to be official

Registrar: Registrar's Office, Shanghai Jiao Tong University http://jwc.sjtu.edu.cn 2015/12/30



School of Mechanical Engineering

STUID: 5060209010

CLASS: F0602001

MAJOR: Thermal Energy and Power Engineering(Refrigeration and Air Conditioning)

NAME: Bao Qian

ACADEMIC YEAR: 2006-2007 SEMESTER ONE

ACADEMIC YEAR: 2006-2007 SEMESTER TWO

CODE	COURSES	CREDIT GRADE		CODE	COURSES	CREDIT GRADE	
BI001	Introduction to Life Science	2	A-	CS053	Programming Abstractions (C++)	3	B+
CA001	Chemistry	2	A-	EN002	University English II	4	A-
CA002	Chemistry Lab	2	B	MA012	Linear Algebra	2.5	B+
ch002	Chinese	2	P	MA083	Calculus II	4	C+
EN001	University English I	4	A	ME102	Machine Design (I) (Drawing II)	2	A
JC001	Introduction to Communication	2	A	ME202	Introduction to Mechanical Engineering	2	B+
MA082	Calculus I	6	B-	MU004	Music Drama, Movie of Singing & Dancing	2	A-
ME101	Machine Design (I) (Drawing I)	2	A+	PE002	Physical Education II	1	A
ME103	Frontiers of Mechanical Engineering	2	A-	PH001	Physics I	4	A-
PE001	Physical Education I	1	B+	PH006	Physics Lab I	1.5	B+
TH009	Circumstance and Policy	1	B+	SP056	Biological Intelligence and Biological Computer	1	B+
TH021	Modern Chinese History	2	B	TH004	Military Theory	1	B+
TH023	Morals and Ethics & Law Fundamentals II	1	B+	TH009	Circumstance and Policy	1	A-
				TH022	Morals and Ethics & Law Fundamentals I	2	B+

ACADEMIC YEAR: 2007-2008 SEMESTER ONE

ACADEMIC YEAR: 2007-2008 SEMESTER TWO

CODE	COURSES	CREDIT GRADE		CODE	COURSES	CREDIT GRADE	
EM001	Theoretical Mechanics	4.5	A	EE007	Electrical and Electronic Technology	3.5	A
EN003	University English III	4	A	EE008	Electrical and Electronic Technology Lab.	1.5	B+
JA001	Basic Japanese I	4	A+	EM003	Engineering Fluid Mechanics	3	A
MA031	Probability and Mathematical Statistics	2.5	B+	EM015	Materials Mechanics	2.5	A
ME008	Metalworking Practice	6	A-	EN004	University English IV	4	A-
PE003	Physical Education III	1	A-	IO201	Industrial Engineering	2	A-
PH002	Physics II	4	A-	ME201	Graphics Process Technology	2	B+
PH007	Physics Lab II	1.5	B+	ME317	Materials Forming Technology	3	A
TH009	Circumstance and Policy	1	A	ME351	CAD-UG (I)	2	A-
				PE004	Physical Education IV	1	A-
				PO201	Engineering Thermodynamics I	2	A
				PO202	Energy Sources and Sustainable Development	2	A-
				TH009	Circumstance and Policy	1	B+
				TH025	An Introduction to Mao Zedong Thought, Deng Xiaoping Theory & Important Idea of the Three Representatives	3	P

ACADEMIC YEAR: 2008-2009 SEMESTER ONE

ACADEMIC YEAR: 2008-2009 SEMESTER TWO

CODE	COURSES	CREDIT GRADE		CODE	COURSES	CREDIT GRADE	
MA023	Mathematical Modeling	2	B	EM357	Mechanical Vibration	2	A
ME308	Fundamentals of Control Theory I	3	D	ME309	Control Technology II (Mechatronics Control)	2.5	B-
ME313	Control Technology I (Fluid Controlling)	2	A-	ME310	Course Project of Fundamentals of Control Technology	1.5	A
ME316	Fundamentals of Machine Design	3	B+	ME314	Control Technology III (Computer Controlling System)	2	A
ME318	Course Project of Fundamentals of Machine Design	3	B-	ME352	CAE-ANSYS (II)	2	A+
MU025	Appreciation of Japanese Music	2	B	PO304	Thermal Energy and Power Compositive Experiment	1	B
PO303	Engineering Thermodynamics II	1.5	A	PO305	Fundamentals of Thermal Energy and Power Engineering	3	B+
PO306	Heat Transfer and Mass Transfer	3.5	A-	PO309	Aerodynamics and Two-phase Flow	2	A
PO308	Combustion Theory	2.5	B	PO340	Refrigeration Theory and Equipment	3	B-
S0026	Undergraduate Career Development	1	A-	PO441	Cryogenic Technology and Applications	2	B+
TH024	Marxism Basic Theory	2	B-				

ACADEMIC YEAR: 2009-2010 SEMESTER ONE

ACADEMIC YEAR: 2009-2010 SEMESTER TWO

CODE	COURSES	CREDIT GRADE		CODE	COURSES	CREDIT GRADE	
CS000	Introduction to Computer Technology	0	P	BS025	Undergraduate Project (Thesis)	27	B+
EC005	Microeconomics	2	A	HI031	Modern Japanese History	2	B
IM002	Corporation MIS and Knowledge Engineering	2	A				
ME489	Product Design Theory, Methods and Tools	2	B+				
PE005	Physical Education V	1	D				
PO307	Testing Technique	2.5	A-				
PO341	Air Conditioning	2	A				
PO401	Professional Course Project	4.5	B+				
PO402	Computational Fluid and Heat Transfer	2.5	A+				
PO440	Refrigerating Plant and Its Automatic Control	3	B-				
XP437	Engineering Internship	6	A				

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Registrar:

Registrar's Office, Shanghai Jiao Tong University <http://jwc.sjtu.edu.cn> 2015/12/30

说明

学年

每学年开始于九月，结束于次年八月。2011年（含）起，每学年包括两个长学期和一个暑期学期，长学期有16周的规定课程，短学期有4周的规定课程；2011年之前，每学年包括两个学期，每学期有18周规定课程。

考核与记分方式

考核根据课程类别分为考试和考查两类，其中考试课程的记分方式为百分制或等级制，考查课程的记分方式为合格/不合格（Pass/Failure）两级制。详细注释如下：

- 1、从2005届毕业生起，我校成绩记录不再使用五级记分制（优秀、良好、中、及格、不及格），已计入的成绩参照附表进行折算；2004届（含2004届）以前学生成绩仍按原记分方式执行，同时由学校出具的中英文成绩证明中成绩折算方法也不做调整，具体参照附表；
- 2、考查课程不计入平均积点，但计入总学分，考查课程总学分达不到培养计划要求不能毕业；
- 3、自03届毕业生起部分课程为双语或英语授课（双语或英语授课课程不另标注），03届以前所有课程除英语、日语等语言类课程外均采用中文授课；02届以前（含02届）毕业生如果英语从二级开始修读，对应英文成绩单英语提高一级；
- 4、学时、学分与GPA：2011年（含）起，16学时=1学分；2011年之前，18学时=1学分； $GPA = \Sigma(\text{学分} \times \text{积点}) / \Sigma \text{学分}$ ，教务处不受理GPA公证。

Explanatory Notes

Academic Year

The academic year of the university begins in September and ends in August of the following year. From the year of 2011, it includes two long semesters and one summer semester, each long semester has sixteen weeks of scheduled classes, summer semester has four weeks of scheduled classes; Before the year of 2011, it includes two semesters, each semester has eighteen weeks of scheduled classes.

Score-Transformation Rules for Undergraduate Courses of SJTU

1. For students graduated in 2005 or after, some courses are graded by the "Pass/Failure" grading system, and others are graded by the hundred-mark system. The Chinese five-level score system(优秀 excellent,良好 good,中 fair,及格 pass,不及格 failure)is no longer in force. The transformation rules are illustrated in the attached chart. For students graduated in 2004 or before, the transformation rules are unchanged.
2. The grade point average does not include the courses graded by the "Pass/Failure", but the credits of these courses are added to the total credits. For graduation, students need to accumulate the required credits, as specified for each program.
3. For students graduated in 2003 or after, some courses are taught bilingually or in English; for students graduated in 2002 or before, all the courses were taught in Chinese language only, except for language courses such as English courses, Japanese courses, and so on; For students graduated in 2002 or before, the score of English is improved one level if he or she studies English from Band 2.
4. From the year of 2011, one credit is designated for one lecture hour per week for 16 weeks; Before the year of 2011, one credit is designated for one lecture hour per week for 18 weeks: $GPA = \Sigma(\text{course credit} \times \text{point}) / \Sigma \text{course credit}$.

Academic Affairs Division does not verify students' GPA.

附表/Attached Chart

新记分制(2005 届起)New Grading System(For Students Graduated in year 2005 or After)						旧记分制 Old Grading System(For Students Graduated in year 2004 or Before)				
考查考核			考试考核			五（四）级考核			百分考核	
中文 计分	对应英文		百分制 计分	对应 英文 等级	积 点	中文计分	对应英文		中文 计分	对应 英文 等级 制
	百分制	等级制					百分制	等 级 制		
合格	Pass	Pass	[95, 100]	A+	4.3	优+、 优、 优-	Excellent	A	[85, 100]	A
			[90, 95)	A	4.0					
			[85, 90)	A-	3.7					
			[80, 85)	B+	3.3	良+、 良、 良-	Good	B	[75, 85)	B
			[75, 80)	B	3.0					
			[70, 75)	B-	2.7					
			[67, 70)	C+	2.3	中+、 中、 及格 C+、 C、 C-	Fair	C	[60, 70)	C
			[65, 67)	C	2.0					
			[62, 65)	C-	1.7					
			[60, 62)	D	1.0					
不合格	Failure	Failure	<60	F	0	不及格	Failure	D	<60	D

缓考 (DF): Deferred Final Examination



上海交通大学

RECORDS FOR UNDERGRADUATE

School of Foreign Languages
MAJOR: Japanese

STUID: 5060209010
NAME: Bao Qian

ACADEMIC YEAR: 2007-2008 SEMESTER ONE				ACADEMIC YEAR: 2007-2008 SEMESTER TWO			
CODE	COURSES	CREDIT GRADE		CODE	COURSES	CREDIT GRADE	
				JA212	Japanese Intensive Reading I	6	A
				JA213	Japanese Visual, Aural and Oral Practice (I)	3	A
ACADEMIC YEAR: 2008-2009 SEMESTER ONE				ACADEMIC YEAR: 2008-2009 SEMESTER TWO			
CODE	COURSES	CREDIT GRADE		CODE	COURSES	CREDIT GRADE	
JA314	Japanese Intensive Reading II	6	A-	JA316	Japanese Intensive Reading III	6	B-
JA315	Japanese Visual, Aural and Oral Practice (II)	3	A	JA317	Japanese Visual, Aural and Oral Practice (III)	3	A
ACADEMIC YEAR: 2009-2010 SEMESTER ONE				ACADEMIC YEAR: 2009-2010 SEMESTER TWO			
CODE	COURSES	CREDIT GRADE		CODE	COURSES	CREDIT GRADE	
JA410	Japanese Intensive Reading IV	6	A-	JA412	Japanese Composition	1	B+
JA411	Japanese Visual, Aural and Oral Practice (IV)	3	A	JA413	Undergraduate Project (Thesis)	2	B+

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TOHOKU UNIVERSITY SENDAI

CERTIFICATE OF RECORD MASTER'S PROGRAM

Name: HOU KEN
Date of Birth: November 13, 1987
Graduate School of Engineering
Department: Mechanical Systems and Design

Subject	Unit	Grade	Year
<Specialized Subjects>	29.0		
Theoretical Basis of Fluid Dynamics	2.0	AA	2011
Solid Mechanics	2.0	C	2011
Thermal Science and Engineering	2.0	AA	2010
Structure and Function of Living System	2.0	A	2010
Design of Materials System	2.0	AA	2011
Engineering of Fluid Systems	2.0	A	2010
Environmental Heat-Transfer Control	2.0	A	2011
Nano-Micro-Mechanodevice	2.0	AA	2010
Internship Training	1.0	AA	2011
Project-Based Learning for Frontier of Mechanical Engineering	2.0	B	2011
Seminar on Energy Systems Engineering	2.0	AA	2011
Master Course Seminar on Mechanical Systems and Design	8.0	A	2012
<Other Subjects>	2.0		
Computational Fluid Dynamics	2.0	A	2010

TOTAL CREDITS AWARDED

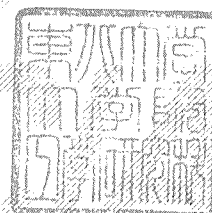
31.0

Grade: AA(Exceptional), A(Excellent), B(Good), C(Fair), R(Recognized), P(Passed)

This is to certify that the above mentioned is true and correct.

Hiroshi Kanai

Hiroshi Kanai
Dean, Graduate School of Engineering
Tohoku University



Official Seal of the
Graduate School of Engineering
Tohoku University

Date: September 25, 2012

CERTIFICATE OF GRADUATION

Name : HOU KEN

Date of Birth: November 13, 1987

Graduate School : Engineering

Course : Master's Program

Department : Mechanical Systems and Design

Date of Enrollment: October 1, 2010

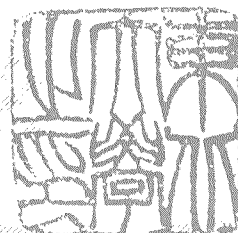
Date of Graduation: September 25, 2012

Degree : Master of Engineering

This is to certify that the above mentioned is true and correct.



Susumu Satomi
President, Tohoku University



Official Seal of
Tohoku University

Date: September 25, 2012

学士学位证书

包乾，男，一九八七年十一月十三日生，机械与动力工程学院
热能与动力工程(制冷与空调)专业完成了本科学习计划，业已
毕业，经审核符合《中华人民共和国学位条例》的规定，授予工学
学士学位。



上海交通大学

校 长
学位评定委员会主席

证书编号: 1024842010000933

二〇一〇年七月一日

(普通高等教育本科毕业生)

证书认证专用章

CERTIFICATE OF BACHELOR DEGREE

This is to certify that **Bao Qian**, male, born on **November 13 , 1987**, studied the **four-year** undergraduate program of **Thermal Energy and Power Engineering(Refrigeration and Air Conditioning)** in the **School of Mechanical Engineering** , was graduated and is conferred the Bachelor's Degree of **Science in Engineering** in accordance with the Regulations Concerning the Academic Degrees of the People 's Republic of China after due examinations.

Zhang Jie

Chairman of the Academic Degrees Appraisal Committee

Shanghai Jiao Tong University

Certificate No. **1024842010000933**

Date: **July 1, 2010**

上海交通大学

第二学科学士学位证书



学生 包乾, 男, 1987 年11 月13 日生, 自 2006 年9 月
至 2010 年 7 月在我校完成了 热能与动力工程-制冷与空调 专业本科学习计划,
业已毕业, 并获得 工 学学士学位。同时修读完成了第二学科 日语
专业的学士学位课程, 成绩合格, 经审核符合第二学科学士学位授予条件, 授予第二学
科 文 学学士学位。



学位评定委员会主席

证书编号: 1024810240114

2010 年 7 月 1 日

CERTIFICATE OF BACHELOR DEGREE

(the second Bachelor's Degree of Shanghai Jiao Tong University)

This is to certify that **Bao Qian**, male, born in **November , 1987**, studied the undergraduate program of **Thermal Energy and Power Engineering(Refrigeration and Air Conditioning)** in Shanghai Jiao Tong University from **September 2006** to **July 2010**, is duly graduated and conferred the Bachelor's Degree of **Science in Engineering**. He has also studied the program of **Japanese** as the second degree and is conferred the Second Bachelor's Degree of **Arts**.

Zhang Jie

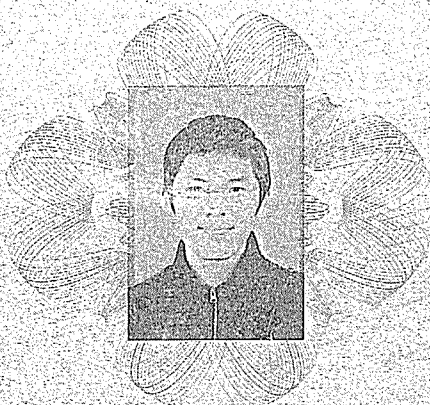
Chairman of the Academic Degrees Appraisal Committee

Shanghai Jiao Tong University

Certificate No. **1024810240114**

Date: **July 1, 2010**

普通高等学校 毕业证书



学生 包乾 性别 男 ,
学号 5060209010 , 一九八七年
十一月十三日生, 于 二〇〇六年
九月至 二〇一〇年 七月在本校
热能与动力工程(制冷与空调) 专业
四年制本科 学习, 修完教学计划规定的
全部课程, 成绩合格, 准予毕业。

校(院)长:

校 名: 上海交通大学



证书序列号: NO. 10223065

证书编号: 102481201005000805

二〇一〇年 七月 一日



DIPLOMA

This is to certify that Bao Qian, male, 5060209010, born on November 13, 1987, studied the four-year undergraduate program of Thermal Energy and Power Engineering(Refrigeration and Air Conditioning) in Shanghai Jiao Tong University from September 2006 to July 2010, and, having completed all the courses with qualified academic standing is hereby duly graduated.

President: Zhang Jie

University: Shanghai Jiao Tong University

No. 102481201005000805

Date: July 1, 2010