Doing Doctorate Student Research Under Software Engineering

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Abstract:
The purpose of this study is to do a good job of doctoral students and doctoral studies and do a good job in student information management system and testing system. The research methods are literature research methods, experimental methods, practice methods and so on. The results are that good doctoral research methods are the guarantee of successful doctoral research, Excellent Student Information Management and Testing System in Software Engineering. The conclusion is to do good doctoral students, and to do a good job of doctoral research for social countries.

Keywords:
Doctoral Student Research, Research Methods, Software Engineering

1. Introduction

Ph.D. students are engineers, and Ph.D. scientific research is an international engineering scientific research. What is a doctor? Some people say that a doctor is a suspended matter on the tip of the academic tower. Justice and peace will prevail. To be a doctor needs to exclude interference and difficulties and to be modest. Can the value theory of matter and the theory of utility value be used to analyze scientific research? Many times are good things. Learn to live. As a circle of knowledge, the primary school, the middle school, the high school, the University, and then the master can be between the edge of the University and the circle, and the doctor is at the edge of the edge of the knowledge, to find a point on it, to carry out research and promote the progress of knowledge. A doctor is a person who needs to be an upright person. A doctor is an engineer and a project. The doctor is a researcher and does scientific research. Doctor is not the peak of education system, but the admission ticket of professional academic research world. In the professional academic world, you are a beginner [1].

1.1. How to be a Doctor?

Establish the research direction and thesis topic as soon as possible. Read a lot of Chinese and English literature and related books to find Idea. Learn related simulation software and validate your ideas. Experimental verification. Learn to write papers and publish papers. Learn to apply for the fund project. We must have excellent
technology to do experiments, make results and walk on two legs. One is scientific research. One is a hobby other than scientific research. There are several objects that can be poured out in their own scientific research or life, so that their scientific research life will not be boring. Keep your body and be happy. Happy research. A positive and optimistic attitude towards life, a sense of anxiety, and a source of self-motivation. Don't make fleas and frogs in the frog. A doctor needs a high EQ and a high IQ. Separate work from entertainment. Put a stone in the first place, and then put the sand [1].

1.2. Carefully Choose the Surrounding Atmosphere of Research

Think of yourself as a beginner. Don't be afraid of making mistakes. The correct results can be obtained by the analysis of errors. Dare to try. Early start data analysis. Read the literature. Don't pay much attention to efficiency. Give yourself time to think. Do things decisively. The adaptability is strong. Separate yourself from writing and writing for readers. The pay of time. The transformation of methodology. Do not be impetuous as a doctor, do things steadfastly, be impatient, and lose your life. State of mind as far as possible, not eager for success and interest, not eager to seek success, not impetuous, all things can not be easy to stop, can not develop the bad trouble of easy to avoid, can not give up a little little difficulty, can not be occasional enterprise is just a flash in the pan, can not be three minutes after the heat, let everything return to the original calm. Don't doubt yourself at any time. Finish the hard index of the school's tutor as early as possible. Communicate with your tutor more often (at least once a month), communicate with your family and communicate with your friends. Treasure your time and your chance to read and study. Proper tension or introspection can help you stay motivated, but excessive worries will fall into a vicious circle, and eventually you really postpone it. Spend less time surfing the Internet and spend more time communicating with teachers or experts in the field. If you are already aboard the ship, do not belittle yourself. You must be firm in your belief. The basic procedure of scientific research topic selection: the introduction of A's key concepts; B's access to literature; hypothesis C lists the topics [1].

1.3. How Does a Doctor Choose a Topic?

Frontier, application and feasibility are the main criteria for measuring the topic. Large scale research is the basis of topic selection. The thesis should be based on a wide range of research, and first read one or two good literature reviews. The choice of difficulty and the feasibility of the subject. The frontier and the practical significance. A doctor, an engineer, what is the way engineers do scientific research. The scientific research method that follows the doctoral research and engineer's research is the objective law and the objective laws and methods that need to be followed in scientific research both at home and abroad. A lot of foreign schools take a look at Dr. Bei Hang's visit to the prospectus. Scientific research is a kind of work. It requires the following steps: setting up research direction, finding literature, reading literature, summarizing literature, writing articles, publishing large papers. Taking research as an interest, interest is the best teacher, and in combination with his technical and knowledge base, a deep study of a particular technology and a problem. First of all, scientific research goals are very important. Clear goals are like navigational aids in the sea, and guide to reach the other side as quickly as possible. Secondly, the scientific research plan is very important. A good research plan enables the work to be completed as expected. Finally, the publication of scientific research
results is very important. If not published, there is no scientific research result. The key to publishing English papers is excellent authentic English and innovative and practical work. Innovation is mainly the innovation of methods and materials. The five steps of postgraduate innovation are people without me, people who have me, people who are superior to me, many people who are strong, and strong people. For research, open up first and then go deep. How to analyze the results of the research work is the model, some from the explanation, some need to seek new theoretical basis, and then cross the subject, can be harvested, and some come from the hypothesis. This paper, from the analysis of scientific needs, determines research topics, how to select and do research, information retrieval, literature reading, writing and revision of translation papers, papers, papers, manuscripts, papers, papers, and papers [1].

1.4. Scientific Demand Analysis

Social needs: the needs of economic development, the needs of national defense construction, the needs of medical health and cultural education, and so on. The development of discipline theory needs to open up the needs of scientific fields, update the needs of scientific theories, and improve the needs of scientific methods [1]. The introduction of your article is organized as a funnel that begins with a definition of why the experiment is being performed and ends with a specific statement of your research approach. And it highlights controversial and diverging hypotheses when necessary. The introduction of your article is organized as a funnel that begins with a definition of why the experiment is being performed and ends with a specific statement of your research approach. And it highlights controversial and diverging hypotheses when necessary.

2. Materials and Methods

How to select and do research on doctoral graduate students. Scientific research topics affect the way or method of scientific research, which is related to the direction, objectives and contents of scientific research. The choice of topics is prudent. The principle is mainly scientific, creative and feasible. The size of scientific research topic should be moderate. Decision making is mainly about demand and money (or sponsors).

2.1. How to Select a Topic

i. The factors that affect the topic of the thesis. a. tutor. It's your luck to have a mentor to give you a problem. Many postgraduate tutors are busy with their work and have no time to take into account students’ topics, or feel that it is difficult to extract research topics from engineering work. In this case, the graduate students must make their own decisions. Mentors usually do not deliberately restrict students from choosing what questions to choose. Of course, the closer you get to the work, the better. Smart students regard this as a degree of freedom and choose topics that are more conducive to their future development. b. the environment in which you are located. The selection of topics to adapt to the environment (to adapt to the direction of the work of the mentor, to adapt to the direction of the work of the unit) will get a lot of convenience, such as the possibility of rich resources, group cooperation and discussion. c. In the future, you will change into business and Politics: there is no big difference between the topics, but you can graduate. Take the road of entrepreneurship in the future: the importance of choosing topics is general, but we
must graduate. Pay attention to the accumulation of practical skills in the research process (such as programming technology, application software, DSP application design, embedded and MCU, VLSI design, all kinds of communication technology, electronic design technology and so on). This is of great significance for all postgraduate students. We will continue our research in the future: topic selection may have an impact on future research. d. the scientific significance and application value of the selected topic. Any researcher must consider the scientific significance and application value of his research work. However, it is not very realistic for graduate students to decide the topic according to the scientific significance and application value, but it can be used as a reference factor for choosing a topic. For all postgraduates, topic selection may have an impact on future work, but it will not be decisive. The reasonable principle of postgraduate thesis selection is that it can lead to an enforceable research process, which leads to an innovative research result, which leads to a graduation thesis that is able to achieve good results. In particular, it is necessary to taboo unrealistic and inoperable ideas (for example, lack of physical concepts and lack of mathematical support), taboo on large scale, wide range of topics and lack of environmental resources; and of course, to avoid being too mediocre and difficult to create an innovative topic. If you can't get the questions from your tutor, the topics can be read from the literature. This is called the "free researcher" or "surface project" and the common method adopted by most graduate students at home and abroad, which is called "nothing to do." Here are some suggestions on how to choose the topic. ii. In the course of choosing the topic, the graduate students must keep calm, fully understand and analyze some of the "research upsurge" at home and abroad, learn new ideas and new mathematical methods, but do not rush blindly. Most of the boom comes from foreign campuses, without the need for Industry and application. With the upsurge of formation, it shows that the main body of theoretical methodology has been formed, and your chances of innovation are quite low unless your math and professional skills are exceptional. Most of the doctoral dissertations in China are mediocre or not innovative, and are closely related to the popularity of "hot pursuit". "Catching up heat" is a common misunderstanding of postgraduates and many researchers in China. iii. what is most noteworthy is the research topics raised from application requirements. These needs may come from industries such as industry, transportation, medicine, biotechnology and so on. Combining your knowledge in this field with these application topics is likely to produce innovative results. Therefore, when reading the literature, we should look into the background of the author's work and understand the source of the topic. At the same time, strive to jump out of "nothing to do something" and become "do something to do something". If you can be bold enough to explore the application area yourself, you will be able to form an interdisciplinary study, and your chances of success will be great. iv. For engineering researchers, the question often puzzled is: how to extract a meaningful mathematically and research problem from an engineering problem. I am afraid no one can answer this question in general. In fact, if you can complete such an extract, you will have completed an important half of the original problem study. What may answer your question is your deep thinking and investigation of the original project itself. Generally speaking, there is a need for "on the subject matter". If you plan to focus on a engineering problem composition, you need to take up enough time and energy to understand the mechanism, developments, current difficulties, or developmental problems of the project. A large engineering problem can be decomposed into a number of sub problems, such as the general engineering and the general theory, the 1 to N sub problems or the subsystem theory and method, the
algorithm; the theory and method of performance evaluation; the theory and method of fault detection and diagnosis; the related theories and methods of the system application and so on. Often you can only care about one sub problem, and things will become clearer. There are also some ways of thinking that can be referred to, such as a "positive problem" from the perspective of analysis and modeling, or a "counter problem", or both, from the perspective of synthesis and optimization. The difficulty of raising a new question is to break through the habit of thinking. From a professional point of view and considering a possible application environment, it is easier to find developmental jobs. As long as you do more literature research, graduate students in the engineering environment should be able to form their own research topics. v. Some doctoral students are very concerned about what kind of topics will have the most promising future. In fact, this is a problem that researchers are pondering, and each one has his own judgement. Generally speaking, the unsolved problems found in scientific literature and in human practical activities are the most promising. Such problems can be found everywhere in the field of electronic information. The problem is that you have to choose a topic that has proper scientific value and can be completed in 2~3 years, which requires wisdom and experience judgement. Many people think that there are many future topics. There are many people who do research. You will face fierce competition in the future. It's easier to consider topics with practical application requirements, and your environment can be tolerated. You should pay special attention to the document investigation. vi. The topic selection of doctoral dissertations may have an impact on your future development, but it is not decisive. If you want to continue research and study in the future, in most cases, the most persuasive is your mathematical background, English ability and sensitivity to new ideas. If you want to enter a business or a business in the future, the most valuable thing is your actual ability, comprehensive ability and team spirit. Therefore, there is no need to spend too much time on what topics to choose. vii. The topics of master's and doctoral dissertations are not only the way of theoretical research, but there are many other ways in fact. If done well, it can achieve very high scientific value. For example: a. the study of process methods. It focuses on the field of high-tech product manufacturing, such as integrated circuit manufacturing, biomedical products and other fields. Universities and institutes of science and technology all over the world attach great importance to it. This is the biggest weakness for China, and it is urgent to develop. b. research on statistical estimation and classification of professional statistics. It focuses on medicine, environment and ecological science, geophysical prospecting and so on. Professional statistical estimation and classification is one of the basic methods of cognition in these fields. A comprehensive study of the major. It focuses on Communication Engineering, systems engineering, software engineering and other fields. In these areas, what people care about is not the development of some details, but the integration of a system level to meet the application and performance goals. Researchers usually need to have comprehensive knowledge of the field and have the ability to make the integrated system optimal under the current available technical conditions. What engineering graduate students need to understand is that the subjects we engage in are called engineering or applied disciplines, which are generated from human practice and serve to improve the living conditions of human beings. Our research is right as long as we meet this basic idea. I hope this understanding will help you get a higher degree of freedom in the selection process.

2.2. How to Do Research
i. PhD students must be fully prepared for independent research. Getting a mentor's guidance is your blessing, but it's not without luck to get a mentor's guidance. It's normal for a mentor to be able to guide you, as well as abroad. The basic role of a mentor is to provide you with a research opportunity and basic conditions; give you a field of research; be able to listen to your report, understand your consideration of research issues; be able to make appropriate judgments on your research results, including intermediate results, so as to help you adjust or continue your research plan; Review your research paper and help you improve your presentation. To do this is a basically qualified tutor. Your tutor can do better or worse depending on your luck. It is often unrealistic to have too many expectations of a mentor. In particular, in China, some tutors have a lot of business, too many students, and some tutors are busy running projects and doing projects; some tutors have not done their doctoral papers. Complaining is useless, only your own effort is the most reliable.

b. Postgraduate papers, especially doctoral dissertations, attach great importance to theoretical innovation. Therefore, supplementing mathematics is a very important link according to the mathematical and professional theoretical needs found in the literature survey. Note: it is not an unlimited supply of mathematics. Your graduate life cycle will not allow you to do so. On the other hand, rich mathematical thinking will increase your inspiration. Persistently adding mathematical knowledge is the most effective way to enhance the researcher's ability. For graduate students, we can start from the knowledge of supplementing universal mathematical knowledge, such as reading WiKi network encyclopedia, and reading books such as "mathematics, its content, method and meaning".

c. In the heavy units of the project, some tutors repeat the same or similar topics year after year for graduate students to do. In fact, this phenomenon can not be said to have a big problem, because the same topic is not equal to the inability to innovate. The key is to explore new concepts and methods. The practice of many students is to use newly developed mathematical concepts and methods to improve the work of others. As a postgraduate thesis, it is natural and possible to produce a passing paper, but it is difficult to produce high innovative papers unless you have an innovative and innovative development in mathematical concepts and methods.

d. Facing a scientific question, there are two different ways of thinking. Many researchers think about solving the problems from the new developed mathematical means, such as wavelet, fractal, neural network, high order statistics, particle filtering and so on in the field of information processing. Another way of thinking is to start from the scientific question itself, that is, to start thinking from the original physical facts. A very basic principle is whether any solution you make is correct or not. First, we must think clearly from the concepts of physics and mathematics. If you fail to understand this, your solution must be adjusted. Starting from the original physical facts, you are allowed to re-examine and transform the mathematical models and methods of describing problems through your own understanding. This idea is easier to get innovative results. If you have a good knowledge of mathematics, you can find tools in a large number of mathematical fields, and you may achieve a good combination of theory and practice.

e. Facing a scientific question, there are two different ways of thinking. Many researchers think about solving the problems from the new developed mathematical means, such as wavelet, fractal, neural network, high order statistics, particle filtering and so on in the field of information processing. Another way of thinking is to start from the scientific question itself, that is, to start thinking from the original physical facts. A very basic principle is whether any solution you make is correct or not. First, we must think clearly from the concepts of physics and mathematics. If you fail to understand this,
your solution must be adjusted. Starting from the original physical facts, you are allowed to re-examine and transform the mathematical models and methods of describing problems through your own understanding. This idea is easier to get innovative results. If you have a good knowledge of mathematics, you can find tools in a large number of mathematical fields, and you may achieve a good combination of theory and practice. Raising the level of research results usually requires hard work. Promote and deepen the existing research results. For postgraduate students in information processing and automatic control, we may bring some improved methods for your work, such as: A generalize one dimensional problem to multidimensional; extend the scalar problem to vector and tensor problems; B transform the static problem into a dynamic evolutionary result of virtual time; C transforms the conventional gradient optimization algorithm into the flow pattern self The gradient algorithm; D; uses a more advanced probability estimation method; E extracts mainstream phenomena from complex phenomena; F uses recently reported mathematical techniques. Examples of innovative ways that may bring your work, such as A, use robust estimation instead of conventional probability or non probability estimation; B increases the nature of solutions in solving problems (regularization, complexity constraints, specific constraints, etc.); C uses a mathematical model with hidden layers for complex problems and observations; D uses generalized measurements. The degree of processing can not be described by conventional measures; E increases the complexity of application environment, process divergence and data fusion. These methods may change the theory and method of solution, and make the solution more desirable. Professionalization and reference to physical models. Writing professional papers with professional terminology and expression is easy for your papers to be recognized by professional colleagues (including international colleagues). All professions have their own way of expression, which is called "Dao Dao Dao, Dao Dao". Using industry idioms, fully using industry standards and typical data can help you achieve this goal. For example, if you study data compression, you should be linked to a communication standard or a communication system that is actually required; if you study robust control, you should be associated with a real control system; and so on. Theoretical research in engineering discipline should be related to at least one physical model. If you do not know the physical meaning and application of the research result, you should doubt whether you are still outside the door of research. Connecting with the physical model can not only clearly show the scientific significance of your research, but also help you to think more deeply and grasp the direction of the research more accurately. Breaking away from professional standards, breaking away from physical models and breaking away from application requirements is a common shortcoming of many graduate papers in China. The reason is that the theory of higher education in our country is generally separated from the reality. From the beginning of the teacher, there is a lack of clear understanding of the concept of physics, the lack of understanding of the needs of the application and the demand of the industry. We should try to improve this situation. The elegant mathematical description is used. Elegant mathematical description will improve the level of your thesis and strengthen the recognition of your basic skills. For example, the introduction and expression of functional analysis, set, measure, metric space and topological space, modern algebra, differential geometry and other mathematical aspects are of great significance for engineering researchers. As long as it is properly used, good results will be achieved. Naturally, this requires researchers to have a deeper mathematical background. Depending on your math background, you can grasp the flexibility of mathematical
description skills. Here is only a little example for reference. Accustomed to using a set, space, mapping expression; used to prove the problem of your study by mathematical analysis instead of simply applying the existing results; as far as possible, how to prove the convergence of the sequence, the existence of the solution and the only method and skill; Q uses the viewpoint of functional variational and Fr e Chet derivative. This section should contain sufficient details so that methods can be appropriately cited and readers can assess whether the materials and methods justify the conclusions or not. It can be divided into subsections if several other methods need to be described. You need explain how you studied the topic, identify the procedures you followed, and structure this information as logically as possible.

3. Results and Discussion

Information retrieval. CNKI search: search by search terms, search literature, periodicals, Bo Shu papers, conference papers and so on. Clicking the title can enter the details of the article, the title, the author, the digest, which is published in the Journal (with a periodical cover, and a year and a date below, and can be directly clicked in so that the article can be searched in this period, and the page number is found). Some do not have a periodical cover, nor can they click in the next publication year or period. The page number can not be found at this time. To distinguish authors, articles, pages, and publishing year, replication can be used to speed up. SCI search: you can use only the first box or multiple boxes. EI, SD and SCI are similar, some can download the full text, others can not download the full text. Chinese literature search Wanfang plus CNKI is more comprehensive and includes VIP. How to retrieve the published papers. First, the published journal or conference homepage is searched according to the volume and volume of journals published, as well as the publication of several months. Secondly, through the mail editorial department, we need the electronic version and the paper version. Then, Baidu and Google literature database can retrieve published papers. Finally, Web of Science (SCI/ISTP&ISSHP) can retrieve published SCI papers. If the published paper is retrieved by EI, it can enter the EI database, according to the publication year, publication, conference name, and title of the article, if it is included in the database of the Chinese knowledge network of the online database of the IEEE and other Chinese scientific papers. It can also be retrieved. Which database is included or which periodical is included in the search where it can be retrieved. Student affairs office management system online voting system software development and insurance payment calculation software testing. Strong equivalence class test case as shown in Table 1.

Table 1. Strong equivalence class test case.

| Number | Input (age, point number) | Expected output | Result   |
|--------|---------------------------|-----------------|----------|
| 1      | 15,2                      | 0               | invalid  |
| 2      | 101,4                     | 0               | invalid  |
| 3      | 17,6                      | 0               | invalid  |
| 4      | 26, 8                     | 0               | invalid  |
| 5      | 37,6                      | 0               | invalid  |
| 6      | 46,8                      | 0               | invalid  |
| 7      | 61,10                     | 0               | invalid  |
| 8      | 17,0                      | 1350            | effective|
| 9      | 26, 2                     | 850             | effective|
| 10     | 37,4                      | 400             | effective|
| 11     | 46,6                      | 250             | effective|
Draw a decision table as shown in Table 2.

### Table 2. A decision table.

| Option action | 1–2 | 3–4 | 5–6 | 7–8 | 9–10 | 11–12 | 13–14 |
|---------------|-----|-----|-----|-----|------|-------|-------|
| Condition s: Age, Point | Age<16 | 16<=Age<25 | 25<=Age<35 | 35<=Age<45 | 45<=Age<60 | 60<=Age<100 | Age>100 |
| Behavior: Error | √ | √ | √ | √ | √ | √ | √ |
| 850 | √ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 900 | √ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 400: | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 500: | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 250: | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 550: | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 750: | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Design test case table as shown in Table 3.

### Table 3. Design test case table.

| number | Age | Point | Expected output | Result |
|--------|-----|-------|-----------------|--------|
| 1      | 8   | 0     | Error           | Error  |
| 2      | 8   | 2     | Error           | Error  |
| 3      | 16  | 0.5   | 850             | 850    |
| 4      | 16  | 2     | 900             | 900    |
| 5      | 32  | 2     | 400             | 400    |
| 6      | 32  | 4     | 500             | 500    |
| 7      | 42  | 5     | 400             | 400    |
| 8      | 42  | 6     | 500             | 500    |
| 9      | 52  | 6     | 250             | 250    |
| 10     | 52  | 8     | 400             | 400    |
| 11     | 72  | 4     | 550             | 550    |
| 12     | 72  | 7     | 750             | 750    |
| 13     | 108 | 3     | Error           | Error  |
| 14     | 108 | 6     | Error           | Error  |

Basic path method design test case as shown in Figure 1. Basic path test table as shown in Table 4.

### Table 4. Basic path test.

| Number | Age | Point | Expected output | Result |
|--------|-----|-------|-----------------|--------|
| 1      | 16  | 0     | 850             | 850    |
| 2      | 16  | 2     | 900             | 900    |
| 3      | 31  | 2     | 400             | 400    |
| 4      | 31  | 4     | 500             | 500    |
| 5      | 42  | 5     | 400             | 400    |
| 6      | 42  | 6     | 500             | 500    |
| 7      | 52  | 6     | 250             | 250    |
| 8      | 52  | 8     | 400             | 400    |
| 9      | 72  | 4     | 550             | 550    |
| 10     | 72  | 7     | 750             | 750    |
4. Conclusions

The management system of the students' Educational Service Department. With the increasing scale of school running, the number of students and teachers is increasing rapidly, the task of teaching management is more heavy and the funds for management and management are rising. Grace Ceramics, familiar with sales and marketing planning and marketing strategy, familiar with the market, distribution of key figures. Business cards (including those from Wanjia International and Xingang Cybercity and Zhongguancun) attract customers and returnees, and publicize store fronts and key figures online. Advertise sales to Zhongguancun companies. Introduce your family's digital home appliances and building materials to your family. Help parents Grice shop online, vacation shops and business cards. Share with your family and friends what you see as love, marriage, second child, open birth (gender identification), job hunting, IQ and EQ training experience of children and learning scientific car learning experience, etc. He can grow vegetables and flowers, pick peanuts, jujube, walnut, peach, roll corn, water, sell, cook and clean. Books and electronic data in physics, physics and English are very important for scientific research. He has participated in many conferences in Beijing, such as Peking University Conference Intel Conference BIRTV Conference dqmis conference and so on. Proficient in PPT, Excel, word, visio, mind mapping software Mindjet, OMnet ++ software. Familiar with Photoshop, flash. Proficient application of JSP, JAVA, C++, C and other development languages and MyEclipse, VC++ and other development software and SQL Server, MySql, Oracle database language and software. Familiar with Linux environment. Freshmen take part in the fun games and let people walk on our arms and tug of war and play games in the whole class. Take part in the city to create a picture of the garden city and the ping pong Super League. Study group leader, University. The main purpose of this study is to establish an electronic patient record information model and develop an electronic medical record management system. The main content of the research is to establish the electronic medical record information model, develop the electronic medical record management system, and make the medical image acquisition software. i. The main research methods are literature research method, practice research method, using UML and Rose software.
to establish information model, using B/S structure and JSP to develop electronic medical record management system, making medical image acquisition software. The main research results are the establishment of a good information model and the development of a good electronic medical record management system and a good medical image acquisition software. The conclusion is that the newly developed electronic medical record is superior to the traditional electronic medical record, and the new medical image acquisition software is superior to the previous medical image acquisition software. ii. On-line patrol management system (EPASS access control system) Shijiazhuang Xitaike Electronic Technology Co., Ltd. / Beijing Haichuan Yitong Electronic Technology Co., Ltd. project description: patrol system is mainly login access control system, and then set up patrol routes, mainly including patrol, flight, route name, actual arrival time It's normal, late, early, and so on. The access control system has already surpassed the simple doorway and key management, it has gradually developed into a complete access management system. It plays an important role in the work environment safety, personnel attendance management and other administrative management work. Using one card to brush the access control system can enter the field of work. iii. EPS200 Visitor Management System/ Vehicle Access and Personnel Channel Management System/License Plate Recognition Vehicle Access Management System/Background Management/Card Management System. iv. Project Description of Intelligent Card System in CNC: The project requires the system to be flexible and extensible, which can be extended without excessive investment. The system can operate independently to ensure that it works normally when offline. Facing the excessive information system, a new kind of project, which produces safe and reliable software by means of group development and group competition, can be called "group software engineering". The main content of swarm software engineering includes that the whole architecture must be multi-layer architecture, shielding principle, groupware composition service principle, user identity multiplicity principle, developer's competitive selection principle, competitive testing and confrontational security. Excellent performance, strong learning ability, strong communication skills, innovative ability and practical ability. Optimistic, cheerful, helpful and willing to share books and materials. Calm-headed, independent thinking, efficient and practical, rigorous style, strong logic, a strong sense of responsibility and team spirit, can handle all kinds of problems independently. Purple light software undergraduate design. Tan Haoqiang version of C language, Tsinghua University press. Take civil servants to check posts and book information, and Ebbinghaus's forgetting rate curve is used to learn English. Special symbols, such as the right sign, are also important. Rachel and 51 Leaders and Chinese Public Education and English Experience Course and Legal Importance, Good Mentality, Self-confidence and Activities Download Information from National Health and Family Planning Website[2-12]. Zigbee and Wisdom Palace and Wisdom Primary School to University Education and Wisdom Festival Flowers and Intelligent Information Management System and Internet of Things in China and the 28th Law and Intelligent Transportation and Intelligent Household Appliances and Smart Home and Cyrus System and Intelligent Volunteer Welcome System and Artificial intelligence and intelligent affairs control and judgment system and intelligent hospital and intelligent counseling training system and intelligent curtain washing machine and intelligent wiping station wiping robot are also future research directions.

Conflicts of Interest
The authors declare that there is no conflict of interest regarding the publication of this article.

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