

PORTFOLIO



**MR. THANPISIT
RITPETCHNIL**

Portfolio PDF file
(Google Drive)



Princess Chulabhorn Science High School Chonburi

The Secondary Educational Service Area Office Chonburi Rayong

**Computer Engineering (International Program)
King Mongkut's University of Technology Thonburi**

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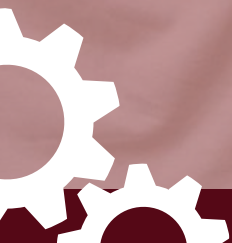
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Statement of Purpose



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Faculty of Engineering, Computer Engineering Program, King Mongkut's University of Technology Thonburi (KMUTT) is an educational path that I am interested in because I am interested in studying and learning how to build and develop computer programs, including creating and developing various technologies to be modern and help facilitate daily life. I also dream of being a part of creating technologies that benefit the world. These interests are the force of my educational goals.

While I was in junior high school, I started learning basic computer programming, which was the starting point that interested me, and I love learning to program. So I spent my free time to studying about programming, including studying the working principles of various programs found in daily life, such as studying the principles of creating websites, studying how to create applications, studying how to write codes to control the operation of Microbit boards and Arduino UNO boards, and studying and finding knowledge about various technologies from online learning sources. Later, when I started studying in senior high school, I learned about more interesting computer programming, which I was able to use to develop my knowledge into innovative projects that I was able to test and find that creative projects can help facilitate daily life.

In the fields of Computer Engineering, I have a variety of knowledge and skills in learning and programming, including programming in Python and C++, which are the foundations for programming that can be further developed in my studies. I am confident that my knowledge, experience, and abilities will be the foundation that will enable me to succeed in my higher education.

If I am passed the selection process to study in the Faculty of Engineering, Computer Engineering Program, King Mongkut's University of Technology Thonburi (KMUTT), I will use my knowledge and skills to study and develop research or projects to the best of my ability. And I will always seek new knowledge to challenge myself to continuously create works that benefit society.

The Faculty of Engineering, Computer Engineering Program, King Mongkut's University of Technology Thonburi (KMUTT) is the path of study that I decided to study at the higher education level. I believe that studying in this field, faculty, and university will open up good opportunities both in terms of education and future careers for me. This is because KMUTT is a university that consists of faculty and personnel who have both experience and ability, which are the main factors in producing students who are quality graduates, along with having a curriculum and educational technology that are up-to-date.



PERSONAL INFORMATION

Details

Name : Mr. Thanpisit Ritpetchnil
Date of Birth : 1 September 2006 **Ages :** 18 years old
Nationality : Thai **Religion :** Buddhism
Home Address : 224/3 Moo 7, Nong Kham, Sriracha, Chonburi, Thailand 20110

Parents Details

Father's name : Mr. Suprawan Ritpetchnil **Ages :** 50 years old
Father's occupation : Company employee
Work location : Thai Containers group Co., Ltd. (Kamphaeng Phet)
Mother's name : Mrs. Nantapon Ritpetchnil **Ages :** 45 years old
Mother's occupation : Company employee
Work location : Takachiho Denzai (Thailand) Co.,Ltd.

Education background



Senior Primary School

GPAX : 3.60

Maryvit Bowin School



Junior High School

GPAX : 3.87

Maryvit Bowin School



Senior High School

GPAX : 3.61

Princess Chulabhorn Science High School Chonburi

Skills and abilities

Soft Skills :



Communication skills



Teamwork skills



English language skills for study and work



Decision-making and problem-solving skills



Adaptability and quick learning skills



Skills in adapting to society and the environment

Hard Skills :

I have the skills and abilities to build and develop computer programs, including using programs to create media or works as follows :



Visual Studio Code



Python



C++



PyCharm



HTML5



Arduino IDE



Google Collaboratory



Final Cut Pro



DaVinci Resolve



Adobe Premiere Pro



Adobe Photoshop



Adobe Lightroom



Sketch3D



FlashPrint 5



Udacity



Canva



Microsoft Word



Microsoft Excel



Microsoft PowerPoint

Contacts



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PERFORMANCE



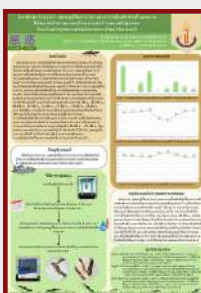
Local Environmental Research Promotion Project for Fiscal Year 2023 (GLOBE)

The science project “Study of environmental factors affecting the number of rove beetles”, which was created by me and my team members, was selected to be presented in the Local Environmental Research Promotion Project for the fiscal year 2023 (GLOBE) under the Burapha University Network and the Global Studies for Environmental Development (GLOBE), Institute for the Promotion of Teaching Science and Technology (IPST).



The 4th PCSHS SCIENCE SYMPOSIUM 2024

Received a silver medal certificate from submitting a science project titled “Study the number of rove beetles at different times of the day in the dormitory of Princess Chulabhorn Science High School Chonburi” to participate in the presentation of The 4th PCSHS SCIENCE SYMPOSIUM 2024 project through a video presentation (online). This science project is a study and development from the science project titled “Study of environmental factors affecting the number of rove beetles” created by me and my team members.



Presentation of Math, Science and Technology Projects by High School Students for the Academic Year 2024

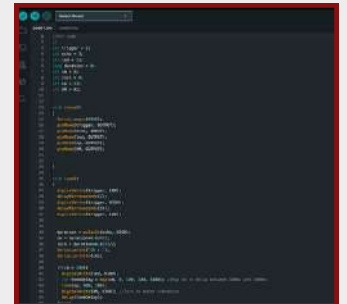
Received a gold medal certificate in the Biology category for presenting a science project titled “Study the number of rove beetles at different times of the day in the dormitory of Princess Chulabhorn Science High School Chonburi” in the presentation of the results of the mathematics, science and technology projects of high school students in the academic year 2024.

PERFORMANCE



Pass Selected to test the usability of innovative products with the visually impaired

The innovative work on “Crutches for the Visually Impaired with Leg Injuries” was created by me and my team members. It was created by applying knowledge of computer science, programming the Arduino UNO board, and connecting circuits to create and develop the innovative work. My team received support from the Pattaya Redemptorist School for the Blind to test and collect data on the efficiency of the work with students in the school. From testing and collecting data on the satisfaction of the sample group of 20 students in the school, it can be concluded that this innovative work can be used to help increase safety and provide convenience to the visually impaired.



My innovation work of the senior high school level

Created an innovative work entitled “Crutches for the Visually Impaired with Leg Injuries” as part of the work for the Creativity and Innovation 2 (SCI30286) course, which was tested with a sample group of visually impaired people. The work and results of testing the work of the innovative work were presented. This work was developed by applying knowledge of computer science, programming the operation of the Arduino UNO board, and connecting circuits to create and develop the innovative work.



My Mini Computer Project of the Grade 11 level

The program “Quick Math” was created as a Mini Computer Project for the grade 11 level using Python as the main language used for writing and developing the program. This program can help train users to calculate mathematics faster by adding complex and diverse problems.

ACTIVITIES



Serve as a speaker and organize volunteer activities "Share Happiness to Children Camp"

Participated in and organized a volunteer activity "Share Happiness to Children Camp" at the Border Patrol Police School, Ban Na Yao. I acted as a lecturer to provide knowledge and advice to the students about important concepts and principles for learning to invent and develop science projects. I also organized recreational activities to make the students happy and funny while participating in the activities.



Environmental Science Camp Activities

Participated in the Environmental Science Camp for the 2024 academic year at the Sakaerat Environmental Research Station, Nakhon Ratchasima. From the camp, there was an awareness of the importance of environmental conservation and wildlife population conservation.



Environmental and coastal ecosystem conservation activities

Join in planting mangrove trees to help conserve the coastal ecosystem and maintain its abundance.



GREEN SCHOOL GREEN COMMUNITY

Join us for a lecture on the factors that cause the greenhouse effect.



World Anti-Drug Day Activities

Attend a lecture on the dangers of drugs and principles for living a life far from the dangers of drugs.

ACTIVITIES



Parliament Visit Activities

Visit the exhibition of the biography of King Prajadhipok at the Parliament Museum. Attend the House of Representatives meeting and view the architecture around the Parliament building.



Participate in safety promotion activities in schools and dormitories.

Participate in training and listen to lectures on basic fire prevention and fire evacuation, including guidelines for enhancing safety in educational institutions.



Four Regions Dance Performance

Participated in performing as "Phi Ta Khon", which is one of the arts and cultural beliefs of the Northeastern region of Thailand.



CONTEMPORARY Performance

Participated in the CONTEMPORARY event in the form of a musical, The Wizard of Oz.

CERTIFICATE



Certificates
(Google Drive)



Selected to participate in presenting a science project in the GLOBE project.



Received a gold medal award in the academic presentation activity.



Received Silver Medal Certificate The 4th PCSHS SCIENCE SYMPOSIUM 2024.



Through participation in academic presentation activities.



Serve as a working group in organizing National Science Week activities for the academic year 2024.



Participated in the Science and Environment Camp, Academic Year 2024.



Passed the Information Systems and Data Communication Learning Test.



Participated in the English Day Camp 2022 activity camp.



Through participation in the activity English Field Trip.



Selected as a student with outstanding morality and ethics.



Passed the Dharma camp project "The Buddhutra Camp."



Became a speaker and organized a volunteer activity "Share Happiness to Children Camp" for 8 hours.

CERTIFICATE



Through the online course Digital Intelligence Quotient For Elderly.



Through the online course Design Thinking for Entrepreneurs.



Complete the online course Modern Entrepreneur: Modern Entrepreneur (Introduction).



Through online courses on application development using Low-code and No-code technologies.



Through the online course Prototyping Applications.



Complete the online course Learn Coding Basics with Block-based Programming.



Through online learning courses on the topic of our environment: Changing the paradigm to manage plastics.



Completed the online course Principles of Innovation and Entrepreneurship: VIE.



Completed online training in Basic Life Support.



Completed an online course on Basic Computer Programming.



Completed the online course Intermediate Computer Programming.



Completed an online course on Advanced Computer Programming.

THE SECRET OF GETTING AHEAD IS GETTING STARTED



I sincerely thank the esteemed professors and selection committee for dedicating your valuable time to reviewing my portfolio. Your kind consideration and support mean so much and provide me with a great opportunity for growth.

Sincerely, Thanpisit Ritpetchnil