

Taran Anusorn

PROSPECTIVE GRAGUATE STUDENT

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Current Research Interests

- Applied Electromagnetics and Photonics in Various Systems
- Terahertz (THz) Technology
- Microwave and Millimeter Wave Engineering
- Modern Communication Systems

Education

Chulalongkorn University

Bangkok, Thailand

Bachelor of Engineering in Electrical Engineering (1st class honors)

July 2023

- Elective specialization: Communication and Control Engineering
- GPA: 3.94/4.00
- Senior project: Design and Development of Reflecting Metasurfaces for 5G and Beyond Wireless Communication Systems (In collaboration with the National Electronics and Computer Technology Center)
- Senior project advisors: Dr.Panuwat Janpugdee, Dr.Suwit Kiravittaya, Dr.Paramin Sangwongngam

Honors

Recipient of the Anandamahidol scholarship

2024 - 2029

The Anandamahidol Foundation

- Fully funded scholarships, granted annually, for young Thai students to pursue graduate studies abroad in eight fields of studies, including medicine, science, engineering, social sciences, arts and humanities, agriculture, dentistry, and veterinary medicine. Only one outstanding student is selected for each field.

Publications

Journal Articles

- T. Anusorn, S. Korananan, P. Janpugdee and D. Torrungrueng, "Compact CCITL-Inspired Power Dividers Using Multi-section Transmission Lines," submitted to the *International Journal of RF and Microwave Computer-Aided Engineering* (under review).

International Conferences

- T. Anusorn, P. Janpugdee, S. Kiravittaya and P. Sangwongngam, "Dual-Polarized Phase-Gradient Reflecting Metasurface for 5G mmWave Coverage Improvement," *2023 IEEE International Symposium On Antennas And Propagation (ISAP)*, Kuala Lumpur, Malaysia, 2023, pp. 1-2, doi: 10.1109/ISAP57493.2023.10388656.

Work Experience

National Science and Technology Development Agency (NSTDA)

Pathum Thani, Thailand

Research Assistant Intern

May 2022 - July 2022

- Designed and developed the visible light communication system using a Raspberry Pi camera for an indoor positioning system under the supervision of Dr.Pornanong Pongpaibool.

Skills and Computer Literacy

High Frequency Measurement	Vector Network Analyzer, Optical Time Domain Reflectometer
Computer-Aided Design	Ansyz HFSS, CST Microwave Studio, PathWave ADS
Computer Programming	MATLAB, Python, C/C++, Linux
Graphic and Document	L ^A T _E X, MS Office, Jekyll

Relevant Courseworks

Microwave Engineering, Principles of Antennas, Semiconductor Devices, Optical Fiber Communication, Mobile Communication and Network, Artificial Intelligence for Engineering, Stochastic Processes, Smart Grid Technology, Industrial Automation

Extracurricular Activities

KH50 Volunteer Camp

Camp Director

Feb - May 2023

- Planned and organized a summer volunteer camp in Udon Thani province, Thailand, with 30 student staff and 50 ordinary participants, raising 400,000 THB in funds. We also coordinated with both private and government agencies to achieve our goal of transforming an empty area into an interactive learning space, constructing a multipurpose building, and conducting inspiring educational activities for a rural village school.

Residence of Chulalongkorn University Volunteer Club

Club President

Jun 2021 - Jun 2022

- Organized multiple volunteer activities, including three volunteer camps and online workshops during the COVID-19 pandemic, and managed over 500k THB in the club budget.

NITAD 18 Engineering Exhibition

Event Creator Team Member

Dec 2021 - Mar 2022

- Conceived and planned multiple online events in the engineering student exhibition during the COVID-19 pandemic, including online showcases of engineering projects, informative engineering talk shows and podcasts, and interactive hands-on workshops tailored for high school students.

Engineering Student Committee

Volunteer Physics Instructor

Aug 2021

- Prepared and delivered a concise preparatory physics course to over 100 enthusiastic freshman engineering students. The course primarily focused on calculus-based kinematics and kinetics, while also offering tips and tricks to succeed in college-level physics studies.

Engineering Student Committee

Corporate Social Responsibility (CSR) Team Member

Jul 2020 - Jun 2021

- Collaborated with the team to execute a range of CSR activities, which encompassed two volunteer camps, an online workshop focusing on the utilization of solar-powered water pumps for rural areas, and activities involving the construction of interactive bookshelves for schools.
- Coordinated with private companies for sponsorships.