

TARAN ANUSORN

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SUMMARY

A senior electrical engineering student at Chulalongkorn University who is passionate about innovation and technology, especially in electromagnetic theory and its applications and communication systems.

CURRENT RESEARCH INTERESTS

- Electromagnetic Theory and Applications
- Metamaterials and Metasurfaces
- Wireless Communication Systems
- mmWave and Terahertz Technologies

EDUCATION

Chulalongkorn University

Bachelor of Engineering (Electrical Engineering)
2019 - 2023
Overall GPA: 3.93/4.00

Senior project:

Design and Development of Reflecting Metasurfaces for
5G and Beyond Wireless Communication System

SKILLS AND COMPUTER PROFICIENCY

High-Frequency Measurements

- Vector Network Analyzer (VNA)
- Antenna Parameters Measurements
- Optical Time Domain Reflectometer (OTDR)

MATLAB

- Able to solve various mathematical and engineering problems using multiple toolboxes
- Able to create 2D/3D visualization of electromagnetic fields and waves
- Able to use Simulink for dynamic system modeling

Python

- Able to solve various mathematical and engineering problems using numpy
- Able to perform the image processing using OpenCV
- Able to create simple machine learning algorithms using Pandas

Ansys HFSS

- Able to simulate the frequency response of infinite-boundary periodic structures
- Able to design metasurfaces using the parametric simulation
- Able to simulate a far-field scattering pattern of finite structures in an open boundary region

CST Microwave Studio

- Able to simulate the frequency response of infinite-boundary periodic structures
- Able to design metasurfaces using the parametric simulation
- Able to simulate a far-field scattering pattern of finite structures in an open boundary region

PathWave Advanced Design System (ADS)

- Able to simulate the response of RF/microwave circuits
- Able to perform an automatic microwave network matching

Microsoft Office

- MS Words, MS Excel, and MS PowerPoint

General Handyman Skills

- Basic Electrician Skills (such as wiring, battery packaging, electrical measurements)
 - Woodworking Skills
 - Basic Construction Skills
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WORKING EXPERIENCES

Research Assistance (Intern)

National Science and Technology Development Agency (NSTDA)

May 2022 - Jul 2022

- Designed and developed the visible light communication using a Raspberry Pi camera for the indoor positioning system

Club President

Residence of Chulalongkorn University Volunteer Club (Kai Hor Chula)

Jun 2021 - Jun 2022

- Led the team to organize multiple volunteer activities and conducted volunteer camps for distant schools and rural areas
- Planned and managed 500k baht club budget

Battery Team Member

CU Racing-Electric Club

Aug 2021 - Apr 2022

- Designed and implemented the battery system of an electric racing car

Event Creator Core Team Member

NITAD 18th Engineering Exhibition

Dec 2021 - Mar 2022

- Ideated and planned multiple online events for an engineering exhibition
- Cooperated with multiple teams to deliver the events

CSR Department Core Team Member

Engineering Student Committee, Chulalongkorn University

Jul 2021 - Jun 2022

- Conducted multiple CSR events, workshops, online seminars and volunteer camps

Public Relations Team Lead

Residence of Chulalongkorn University Volunteer Club (Kai Hor Chula)

Jul 2021 - Jun 2022

- Planned and provided information about club activities through various media

CERTIFICATES

Microwave Engineering and Antennas

Eindhoven University of Technology

Issued Oct 2022

Programmable Logic Controller

Chulalongkorn University

Issued Apr 2022

Renkei Control

Chulalongkorn University

Issued Apr 2022

Introduction to Smart Grid

Chulalongkorn University

Issued Oct 2021

VOLUNTEER ACTIVITIES

- Director of the 50th Residence of Chulalongkorn University Volunteer Camp (May 2023)
- Development team lead of the 49th Residence of Chulalongkorn University Volunteer Camp (Dec 2022)
- Construction team lead of the 4th midterm Residence of Chulalongkorn University Volunteer Camp (Apr 2022)
- HR manager of the 2nd Kor-Lamphun Volunteer Camp (Dec 2021)
- Physics tutor of the freshman tutoring activity (Aug 2021)
- Staff of the "Build for school" volunteer project (Mar 2021)
- Staff of the 1st Kor-Lamphun Volunteer Camp (Dec 2020)
- Staff of the School Repairing Camp (Oct 2020)
- Sponsorship coordinator of the "Fit Fight Covid" campaign (Aug 2020)
- Student volunteer, The CSR 3 SAO Volunteer Camp (Feb 2020)
- Education mentor of the Chula-Sa Kaeo Academic Guidance Camp (Jan 2020)
- Student volunteer, the 47th Residence of Chulalongkorn University Volunteer Camp (Dec 2019)
- Student volunteer, the 3rd midterm Residence of Chulalongkorn University Volunteer Camp (Oct 2019)

LANGUAGES

English

Proficient user (C1 level, IELTS Overall 7.0)

Thai

Native user