

Prasopchok Rodsiri

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EDUCATION

Bachelor's Degree in Electrical Engineering

July 2024

Chulalongkorn University

Project: "Design of low-power analog circuits for microcontroller"

Advisor: Napong Panitantum

GPAX: 3.51 (Second-class Honors)

RESEARCH INTERESTS

Analog/Digital mixed-signal circuit, CMOS sensor, and RF integrated circuit

WORKING EXPERIENCE

Data Engineer Intern

June - August 2024

Big Data Institute (Public Organization)

- Learning and mastering Google Cloud Platform (GCP) tools, Apache Spark, and Airflow
- Collecting daily TOP50 playlists from 10 countries using Airflow orchestration on GCP.

Researcher, Design of low-power analog circuits for microcontroller

August 2023 - May 2024

Department of Electrical Engineering, Chulalongkorn University

- Designed and tested continuous analog comparator for wide range supply (1.8-5.5 V) over PVT variation.
- Designed a bootstrapped switch, dynamic comparator for 10-bit charge-redistribution SAR ADC on 130nm node.
- Collaborated and discussed with fellow undergraduate students and advisor.

Analog IC design intern

May - July 2023

Silicon Craft Technology PLC

- Reviewed and analyzed previous EEPROM designs to develop a new version.
- Designed and optimized logic control blocks and sense amplifiers in a 4KB EEPROM.
- Acquired first-hand experience analog circuit design and layout using Cadence.
- Coordinated with colleagues and supervisors to ensure the correctness of subblock circuits operation.

EXTRA CURRICULAR ACTIVITIES

The Origin YouTube channel

April 2020 - Present

- Founded the mathematics channel on YouTube to deliver knowledge under the concept of "Understand mathematics from the origin".

KAIST Electrical Engineering Visiting Camp 2024

August 2024

School of Electrical Engineering, Korea Advanced Institute of Science & Technology (KAIST)

- Visited and observed cutting-edge technology in various KAIST laboratories.
- Connected with participants from diverse countries, broadening global perspectives.

The 1st Thailand Microelectronic Design Symposium and Workshop

March 2024

the National Research Council of Thailand (NRCT)

- Participated in the workshop to design and test an operational amplifier.

Siriraj Hackathon 2022

May - August 2022

Faculty of Medicine Siriraj Hospital, Mahidol University

- Conceptualized a mobile medical van to improve access to primary care within local communities.
- Conducted field research in the Khlong Toei community, gathering feedback from local interviewers.
- Achieved finalist status, ranking in the top 10 out of 150 teams, and participated in Hack BKK.

CERTIFICATIONS

Mathematics for Machine Learning Specialization, *Imperial College London* - May 15, 2024

Unsupervised Learning, *CHULA MOOC* - August 13, 2022

Supervised Learning, *CHULA MOOC* - July 19, 2022

TECHNICAL SKILLS

- IC Design Softwares: Cadence, LTSpice, Microwind
- Programming languages: *Python, SQL, MATLAB*
- Cloud services: Google Cloud Platform, Google Cloud Storage, BigQuery, Cloud Functions, Dataproc

LANGUAGES

Thailand: Native

English: Proficient, TOEIC 790 out of 990 since January 10, 2023

REFERENCE

Napong Panitantum, Lecturer

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Amorn Jiraseree-amornkun, Principal Research Engineer

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