CURRICULUM VITAE

MR. PALATIP JOPANYA

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My site: https://palatip-jopanya.github.io/cv_palatip/site/

EDUCATION

Master of Communication Systems OCT 2022 - MAY 2024

Linköping University, Linköping, Sweden.
transcript: https://palatip-jopanya.github.io/cv_palatip/site/transcript

Bachelor of Engineering in Electrical Engineering MAR 2012

Chiang Mai University, Chiang Mai, Thailand

WORK EXPERIENCE

Master Thesis: **Power Consumption Modeling of 5G Millimeter-Wave User Equipment** JAN 2024 - MAY 2024

Device Communication Research, Ericsson AB, Lund, Sweden

Perform measurement in UE power with different settings of network parameters and different schemes in the channel condition inside test chamber. The thesis aims to develop models using machine learning (ML) techniques to estimate the power profile of 5G millimeter-wave User Equipment (UE), particularly when the UE is in EN-DC mode, featuring dual connectivity in both LTE and NR. The network emulator Rohde and Schwarz CMX500 is used in network creation and logging measurement.

Thesis (Draft): https://palatip-jopanya.github.io/cv_palatip/site/master_thesis

RAN ENGINEER MAY 2018 - NOV 2021

Nokia (Thailand) Co., Ltd.

- Functional testing: I performed testing for 5G EN-DC DSS 2100&700&1800 MHz with Inter eNB-CA (band combination of b1+ n28 and sCell as b3 with inter eNB CA).
- Functional testing: I performed testing for 5G EN-DC with dynamic spectrum sharing (DSS) of 700 MHz (band combination of b1+n28) both functionality and mobility testing.
- Functional testing: I performed testing for 4G TDD 2300 MHz MU-MIMO and functionality testing of Massive MIMO radio module namely AENB for 26GHz and AANB for 2300 MHz
- Trial testing**:** I performed trial in customer's pilot cell sites for 5G EN-DC 2100 MHz + 26 GHz (band combination of b1+ n258)
- Décor feature testing: I performed décor functionality testing for rerouting of S1AP of 5G SIM from legacy MME to new EPC.
- Radio Module power consumption testing: I performed testing for power consumption for each load level simulation with different levels of output radiate power.
- PnP functionality testing: I performed testing functionality of Plug and Play (PnP) for mass sites commissioning which is part of the Zero Touch project.
- Complete mobility testing: I performed Multi-Vendor Interoperability (MVI) testing with Ericsson and Huawei for all carrier combination scenarios.
- UG900 spectrum sharing testing: I performed testing for U900 and G900 shared spectrum in 900 MHz for legacy subscribers including EDC machine.

- General hardware testing: I performed testing for newly introduced radio module, baseband unit and scenario verification according to the architecture design.
- General features testing: I performed testing for proposed features for customer when marketing proposes new features or solutions to customer.

INTEGRATION ENGINEER JUL 2017 – MAY 2018

CARENET (contract work for Ericsson Thailand)

- QOS project: To perform testing for inter-working between Ericsson and Huawei both 3G and 4G with Huawei feature namely Dynamic Scheduling, and Differentiated Service Based on SPI Weight. To classify users into 3 classes: normal, abusive and VIP. To perform coordination with core network team for testing assignment attributes in S1AP and RANAP regarding to QCI, THP. To verify that scheduling function is working when cell is in congested scenario by fully utilized PRBs. To perform testing for dynamic QOS modification over the air for UE during high-speed downloading. To verify Ericsson feature according to admission control namely: Ericsson Admission Control.
- PoC testing: To perform testing for Ericsson Lean Carrier and PUCCH Over-dimensioning feature in LTE from 5MHz(25PRBs) to 8MHz(40PRBs). Optimizing parameters for starting and stopping frequency for BW allocation.
- Feature testing: Perform general features according to the requests.
- General project support: Features testing, Network Rollout and SW upgrade.

*With additional contracts from time to time during 2015-2017 in the same role and project.

Wireless Engineer JUN 2013 – MAR 2015

Huawei Technologies (Thailand) CO., LTD.

- I administrated database of radio parameter design and cooperated with Access Network team and RF team to synchronize the Radio parameters.
- I generated script for on-site commissioning and for integrator in the network OSS.
- I reported and tracked alarms during network rollout period for readiness for commercialize NBs and eNBs.
- I performed inconsistency tracking between design and Live-network parameter.
- I supported night operation for requests for changes activities (RFC).
- I generated reports to show progress of the daily Nodes integration for the project management team.
- I Integrated and commissioned radio network controllers (BSC6910) for network expansion in 3G.

CERTIFICATES

Online courses.

- **The UNIX Workbench** Johns Hopkins University
  https://www.coursera.org/account/accomplishments/certificate/N327L9BW3XDV
- **Operating Systems: Becoming a Power User** Google
  https://www.coursera.org/account/accomplishments/certificate/ERT4W5QT5HEP

- **What is Data Science?** IBM

  https://www.coursera.org/account/accomplishments/certificate/VUBJDRG355TS
- **Data Science Methodology** IBM

  https://www.coursera.org/account/accomplishments/certificate/B498NZ6KRZ4Q
- **Tools for Data Science** IBM

  https://www.coursera.org/account/accomplishments/certificate/HW8SXL8FXDNK
- **Python for Data Science and AI** IBM

  https://www.coursera.org/account/accomplishments/certificate/JEL6XRMXHEDT
- **Databases and SQL for Data Science** IBM

  https://www.coursera.org/account/accomplishments/certificate/B8L2VPB9S9NE
- **Data Analysis with Python** IBM

  https://www.coursera.org/account/accomplishments/certificate/4UL92ETTUVXL