APOORVA SUNIL CHAKKAMALLISERY

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EDUCATION

Boston University, College of Engineering — Boston MA, USA
Master of Engineering, Biomedical Engineering. — Expected May 2026

- Clinical Immersion: 50–100 hours in the Neurosurgery Department at Boston Medical Center, identifying unmet clinical needs and designing device concepts.
- Training in human-centered design, medical device development lifecycle, regulatory pathways (FDA 510k, EU MDR), and risk management (QMS, FMEA).
- Exposure to rapid prototyping, manufacturing scale-up, IP strategies, and commercialization frameworks.

Rangsit University — Pathum Thani, Thailand
Bachelor of Engineering, Biomedical Engineering. — May 2023
GPA: 3.55/4.00.

EXPERIENCE

Research Assistant — Aug 2023 - Mar 2025
Digital Cognitive Neuroscience Lab. — Tokyo, Japan

- Affiliated with Hiroshima University (Aug 2023 – Mar 2024) and Institute of Science Tokyo (formerly Tokyo Medical & Dental University) (Mar 2024 – Mar 2025).
- Conducted over 50 EEG acquisitions operating dry electrode EEG headsets.
- Analyzed EEG/ECG data using MATLAB and EEGLAB for ongoing researches.

Product Specialist Trainee — Jan 2023 - May 2023
Aesculap, B Braun Group Ltd. — Bangkok, Thailand

- Supplied assistance in creating tenders, provided 2-3 product usage guidance, and managed an event.
- Demonstrated surgical products in surgical suite for 4-5 laproscopic surgeries and an open heart surgery.

SKILLS

Technical: Proficient in MATLAB, Python, C++, Slack, Trello and Notion.
Laboratory: Accomplished software toolbox skills such as EEGLAB, ERPLAB, HEPLAB, MNE python for analyzing physiological signals, Data Acquisition(EEG/ECG/PPG), Basic knowledge of Arduino.

PUBLICATIONS

Mind to Motion: EEG - Based Classification of Motor Imagery and Actual Hand movements using LSTM models. IEEE conference – BMEICON'23 Tokyo, Japan.

ACTIVITIES & COMMUNITY SERVICE

Volunteer field service engineer

- Calibrated and prepared detailed performance reports for medical devices ensuring accuracy, compliance, and reliability in clinical use across 4 hospitals in Thailand.

RELEVANT COURSES

- Neurotechnology devices, Deep Learning, Bench to Bedside – Translating Biomedical Innovation from Laboratory to the Marketplace.
- Microcontroller system design, Medical signal and image processing and Big data analytics in healthcare system.
- Medical Device Management Course at Tokai University Hospital, Japan (Dec 2022).