



Thee Vanichangkul B.Eng.

Embedded Systems
Engineer

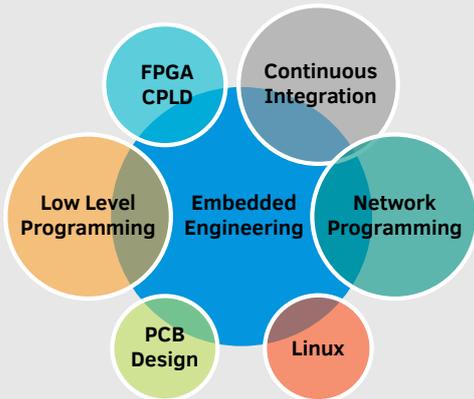
+491724277921

thee.vanich@gmail.com

/in/thee-vanich

theevanich

Technical Skills — Overview



Programming proficiency

C • C++ • Python

C# • JavaScript

Verilog • VHDL • L^AT_EX

Assembly • Shell

Languages —

Thai
Native Speaker

English
Bilingual Proficiency

German
Full Professional Proficiency

Work Experience

- Jan 2025 - Present **Quantum Galactics GmbH** Technical lead
 - Hardware design of the CyBEEsat platform.
 - Lead systems engineer of the CyBEEsat mission
 - Lead systems engineer of the RIDU-Sat 1 mission
 - Lead systems engineer of the CISPAsat mission
- Jan 2024 - Present **ROSI Group at the University of Potsdam** Research assistant
 - Hardware design of the ROSI payload of CyBEEsat.
 - Embedded software development for in-orbit payload science data measurements.
- Jan 2023 - Dec 2023 **RACCOON project at the TU Berlin** Student assistant
 - Hardware design of the RACCOON payload for a CubeSat Bus.
 - Evaluation of COTS Linux System-on-Modules and Software Defined Radios.
- Oct 2020 - Dec 2023 **Quantum Galactics GmbH** Working Student
 - Research and development of CubeSat components.
 - Setup and operation of a PCB assembly workshop.
 - Full Stack Development using Node.js.
- Jan 2020 - Dec 2022 **SALSAT Nanosatellite Mission at the TU Berlin** Student assistant
 - Satellite firmware programming of the payload data handler.
 - Optimizing existing communication bus software.
 - Troubleshooting and optimizing ground station software.
- July 2016 - Dec 2019 **Siemens Mobility GmbH (Previously Siemens AG)** Working Student
 - Working student in the department Intelligent Software (ISW).
 - Hardware/software prototyping and integration.
 - Performed evaluation of various sensor types including: ToF , Optical flow, MEMs IMU, MEMs Microphones, Magnetic, Inductive, High voltage contact, Thermal cameras.
- Apr 2015 - Jun 2016 **Wincor Nixdorf International GmbH** Working Student
 - Working student in the department R&D: Store Automation Technologies (POS Systems).
 - Programmed scripts for automated firmware testing.
 - Automated test report generation.
 - Debugging and optimizing the test framework.

Education

- 2019 - Present **Technische Universität Berlin** M.Sc.
in Computer Engineering
- 2014 - 2019 **Beuth Hochschule für Technik Berlin** B.Eng
in Computer Engineering: Embedded Systems
- 2013 - 2014 **Technische Universität Berlin** Studienkolleg
T-Course: Preparatory course for non-EU students for any program in science or engineering. (Mandatory)
- 2011 - 2012 **Chulalongkorn University, Bangkok Thailand** B.Sc. Chemistry
Chemistry: without graduation, then moved to Germany for pursuing engineering degree.

Accomplishment

VDI-Preis 2016 "Mensch und Technik" First prize awarded by the renowned Association of German Engineers "VDI" on 25th November 2016 for a team project for developing a dynamic lighting system for the community space "Baumhaus Berlin"