SURACHOK KAEWCHAN

Junior System Engineer | Technical / System Support | QA Engineer (Technical)
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PROFESSIONAL SUMMARY

Designed and developed an IoT-based RFID access control system integrated with Firebase. The system includes a web interface and a Flutter application for user registration and basic building occupancy monitoring.

TECHNICAL SKILLS

Systems & OS: Windows, Linux fundamentals, Basic troubleshooting, Log analysis (basic)
IoT & Cloud: NodeMCU (ESP8266/ESP32), RFID Integration, Firebase Realtime DB
Programming: C/C++, Python, JavaScript, Flutter (Dart), C#, SQL
Testing: Test case design, Manual testing, Unit testing, Bug reporting
Tools: Git, VS Code, Firebase, AutoCAD

PROJECT EXPERIENCE

Final Year Project: IoT RFID Access Control
Description

Designed and developed an IoT-based RFID access control system integrated with Firebase. The system includes a web interface and a Flutter application for user registration and access monitoring, allowing basic tracking of building occupancy.

Responsibilities
- Developed an RFID-based access control system for building entry simulation
- Linked RFID card IDs with user profiles
- Integrated the system with Firebase for real-time data storage
- Developed a web interface to monitor access status and building occupancy
- Built a user registration system using Flutter and Firebase
- Tested system functionality and performed basic debugging

Technologies / Tools
- RFID Module
- Microcontroller
- C / C++ (Embedded Programming)
- Firebase (Authentication & Database)
- Flutter (Dart)
- Web-based Monitoring Dashboard
- Basic IoT & Network Communication

INTERNSHIP EXPERIENCE
Software Tester Intern
Callvoice Communications, Bangkok
May 2019 – August 2019

- Designed and executed test cases based on system requirements.
- Performed manual testing to identify functional and UI defects.
- Conducted basic unit and regression testing to verify fixes.
- Documented and reported bugs in collaboration with development teams.
- Collaborated with developers and senior testers to clarify requirements and validate fixes.

EDUCATION
2016 – 2022
- Bachelor of Engineering (Computer Engineering)
- Naresuan University

2013 – 2015
- Phetpittayakom School, Phetchabun
- Science–Mathematics Program

ADDITIONAL INFORMATION
Languages
- Thai: Native
- English: Intermediate (able to read technical documentation)

Availability
- Available to start within 15 days
- Willing to relocate and work in Bangkok

Soft Skills
- Strong teamwork and collaboration skills
- Fast learner with a problem-solving mindset
- Highly motivated to learn new tools and technologies