



Louis Chin Chun Kai

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GitHub : <https://github.com/Louiscck>

Profile

A detail-oriented engineer with about 3.5 years of experience in industrial automation, embedded system firmware development, design, troubleshooting, PLC programming, and electrical system design. I have a strong passion in programming and therefore is looking to pivot my career into Software Engineering. Picked up skills like Java, OOP, REST API, data structure, HTML, CSS, JavaScript, MySQL, JDBC, and Git to facilitate this transition. I've built and deployed a web app to demonstrate my fullstack development ability and dedication in making the transition. Known for being a team player, resourceful, fast-learning, and proactive in solving complex engineering problems.

Working Experience

Top Glove International Sdn. Bhd. (Jan 2022 – Apr 2025)

Industrial Automation Engineer

- Developed firmware for microcontroller (C/C++) for an embedded system and developed a simple mobile app (Java) for configuration and control of the embedded system.
- Programmed a robotic arm used for glove manufacturing and developed a scheduler tool using Visual Studio (C++) to optimize the manufacturing schedule of the robotic arm.
- Programmed PLC to automate manufacturing processes in factory.
- System-level thinking in designing various engineering solutions, making trade-offs to balance between cost, speed, safety, maintainability, user friendliness, etc.
- Design and troubleshoot electrical systems to optimize workflow and reduce downtime.
- Various R&D study to identify bottlenecks, design and improve manufacturing processes.
- Translate business needs into engineering requirements.
- Cross-departmental collaboration to deliver engineering solutions under tight timeline.
- Lead a small unit of 3 engineers and trainees, providing guidance and task coordination.

Personal Project

Inventory Management System (Web App & Mobile App)

- Built a full stack CRUD web app and mobile app from scratch without any framework to strengthen my fundamental and understanding.
- Web frontend: Plain HTML, CSS, and JavaScript using VSCode, communicate to backend server via Fetch API. Responsive view for desktop and mobile devices.
- Mobile frontend: Java using Android Studio, talk to backend server via Retrofit API.
- Backend: Java using IntelliJ, implemented HTTP request and response handling with HttpServer, JSON parsing, HTTP status management, and RESTful API design.
- Database: Built a custom lightweight ORM with Java annotation, reflection, and JDBC to communicate with MySQL database.

- Future plan to upgrade with framework: React, Hibernate, Spring Boot.
- Version control with GitHub and API testing with Postman.
- Web application live demo: <https://inventory-ms-demo.netlify.app/>
- Source code on GitHub: <https://github.com/Louiscck/Inventory-Management-System>

Game Server Emulator Customization

- Worked on an open-sourced project from GitHub about a game server emulator.
- Modified the Java backend server logic in IntelliJ IDEA to change and add new features.
- Gained experience working with MySQL database.

Technical Skill

Programming & Software Development: Java, C/C++, REST API, Object-Oriented Programming (OOP), JSON, data structure, ladder diagram

Web / Frontend: HTML, CSS, JavaScript, Fetch API, DOM manipulation

Database: SQL, MySQL, JDBC, ORM

Development tools & IDEs: IntelliJ IDEA, MySQL Workbench, Visual Studio Code, GitHub, Postman, Visual Studio, Android Studio

Industrial Automation & Embedded System: System design, programming, and troubleshooting for PLC (Omron & Autronics) and microcontroller (Arduino)

Education

Master of Engineering Science (Jun 2019 – Dec 2021)

Tunku Abdul Rahman University of Management and Technology (TARUMT)
Industrial project collaboration with Top Glove International Sdn. Bhd.

Bachelor of Engineering (Honours) Mechatronic (Jun 2016 – Mar 2019)

Tunku Abdul Rahman University of Management and Technology (TARUMT)
CGPA: 3.7550

Publication on AI topic: A posture recognition model dedicated for differentiating between proper and improper sitting posture with Kinect sensor (Conference: 2019 IEEE HAVE)

Diploma in Technology (Mechatronics) (May 2014 – May 2016)

Tunku Abdul Rahman University of Management and Technology (TARUMT)
CGPA: 3.9473

Language

Mandarin, English, Malay

References

Dr. Beh Jyh Jiunn

Former superior
Assistant Manager (Former)
Top Glove International Sdn. Bhd. (Former)
017-4530799

Andy O'Brien

Assistant Manager
Top Glove International Sdn. Bhd.
013-5576247