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**Project Experience**

**Advanced Planning & Scheduling System**  
Weekly Scheduling APS

* Elevated system performance in data inquiry by **91.8%**, i.e., from **2 minutes and 39 seconds to 13 seconds**
* Team member: 1
* Role: Project lead, planning (system analysis), database design, and front-end user interface design

**Equipment M&R Reporting Android App**

* Cross-department communication, planning, implementation, and testing.Design and maintenance of API, database architecture design, and back-end operation.
* Team member: 2
* Performance: Shortening the time taken for report generation **from 1.5 minutes to 8 seconds.**

**Enterprise resource planning**

* **Newly added database index to increase operating performance by 82%**
* Cross-system integration in consolidating the data import and export between 13 major and minor systems and ERP.

**Human-Machine Interface；HMI**

* Integration with enterprise internal communication systems such as team+ (pc, Android, iOS), to inform production supervisors of the number of the units completed by the production line.
* Cross-system integration with ERP
* Elevate system performance by coordinating online testing with the equipment team, production team, information management team, and suppliers to diagnose issues and coordinate implementation measures.
* Role: Assistance in cross-system integration to solve performance and procedure with nine other colleagues from each relevant department.

**Automatic Warehousing**

* Cross-system integration with ERP
* Integration with the manufacturing step of “Steel roll”, for re-design, implementation, and data management.
* Automatic warehousing data report to reporting platform for decision-making by senior management.

**Supply-chain Platform**

* Cross-system integration with weekly scheduling system APS.
* The main system objective: Inventory minimization, production management simplification, on-time vendor delivery

**Barcode scan and production report input program**

* Website for PC data input, by using a barcode scanner to integrate with the user interface. Performance: The time taken to complete input is shortened **from 18 seconds to 3 seconds.**

**In-Factory Communication Software System (Team+)**

* From newly added function of “Device Maintenance APP” to transfer images to team+
* The notification messaging is facilitated from team+ API to personal mobile devices

**Electronic Approval System (Flowmaster)**

* Add the approval function of “Repair Application Form” in “Device M&R Request APP”, in **shortening approval time from 2 minutes to 10 seconds**.

**Fixed Asset Check App**

* Minimize inquiry paperwork for asset management by shortening inquiry time **from 45 seconds to 3 seconds.**
* Newly added fixed assets in the existing storage location in shortening the time taken by the on-site personnel to locate equipment.

**Electrolysis Outsourcing App**

* Outsourcing of manufacturing process with a large volume of semi-finished materials from vendor plant to company plant.
* **Minimizing operating time, shortened from 1 minute to 6 seconds.**

**Education Programs by the Ministry of Education**

* Responsive web design for mobile phone, tablet-PC, and PC versions, as well as responsible for database design.

**HR System, Primax Electronics**

* Establish German SAP and Microsoft SQL Server databases with data transfer in-between.