

# KARTHIKEYAN KARUPPAIAH

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## Summary

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**Systems Analyst** Developer specializing in front-end development. Experienced with all stages of the development cycle for dynamic web projects. Over 10 years working with ASP.NET MVC, ASP.NET Web API, and ASP.NET web pages, MS SQL. Strong background in project management and customer relations.

## Skill Highlights

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- Project management
- Product Development
- Complex problem solver
- Creative design
- Operation System Software
- Service-focused

## Experience

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- Working in Serba Dinamik IT Solutions Sdn Bhd, Malaysia as Software Engineer from Dec 2011 To till Date.
- Global Techno Solutions, Chennai as Software Engineer from Nov 2010 To Nov 2011.

## Education

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- **M.C.A.**, Master of Computer Application - Anna University, Thirunelveli (2007 – 2010)
- **B.Sc.**, Physics– Alagappa University, Karaikudi (2003 – 2006)

## Technical Skills

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Tools	:	Microsoft Visual Studio .net <b>2022</b> , 2019, 2010,
Web Technologies	:	<b>Asp.net</b> , Ado.net, GitHub,Telerik Controls,Entity Framework
Languages	:	<b>C#</b> , Vb.net
RDBMS	:	MS SQL Server <b>2019</b> ,mysql 8.0, MS Access
Reporting Tools	:	Stimulsoft, TX Text Control

**Projects Details:****SERVICE MANAGEMENT SYSTEM (SMS) & CALIBRATION MANAGEMENT SYSTEM (CMS):**

- **Client:** 1) SIRIM Standards Technology Sdn. Bhd, Malaysia.  
2) National Metrology Institute of Malaysia, Sepang, Malaysia.
- **Technology:** C#, ASP.Net, SQL Server 2012, and Stimulsoft for reporting.
- **Description:** SIRIM Standards Technology Sdn. Bhd. Is the largest calibration facility in Malaysia and provides the widest accredited scope of calibration services in the fields of Elec, Temp, Dim, F&P, and Mass. Service Management System(SMS) is a web-based system, main features of the SMS are a Centralized database for ease of access and information sharing, Covering all branch locations, and Integration with the existing system using web services, this system is having main modules like Sales, CRM, Operation, Invoice and Master data modules such as Equipment, Customer, Contract, Location, Department, Staff and user details. All the inquiries will be created through the system, Sales team creates the Quotation based on the inquiry. Once the Quotations are created system sends an email to the customer automatically. If the customer accepts the quotation, they send the items with PO. CRM team uploads the PO and registers the items based on the quotation and generates the barcodes for each item, including the accessories, scans the barcode, and keeps it in stores. The system will indicate newly registered items based on the registered labs. Technicians come to scan the barcode and take the items from the store and do the calibration and generate the calibration certificate with the lab head's approval and return the items to the store and scan the barcode. Once calibration is done Invoice dashboard indicates the completed items list, then the accounts team does the invoice, and the system sends an email to

the customer automatically. After generating the invoice, it will Interface with other financial systems using Webservices.

#### **MALAYSIAN MEDICAL THIRD-PARTY ADMINISTRATOR (MYTPA):**

- **Client:** Serba Dinamik IT Solutions Sdn. Bhd, Malaysia.
- **Technology:** C#, ASP.Net, SQL Server 2012, and Stimulsoft for reporting.
- **Description:** Malaysian Medical Third-Party Administrator (MYTPA) is a Third-Party Administrator (TPA) who manages claims and medical benefits for the corporate client's employees. It is online system coverage of employees' medical benefits to their employees. An employee can view and use their medical benefits through an MYTPA mobile application. The employee can also search and locate locations of healthcare panel providers and get directions to their places using the mobile application. MYTPA is Designed to help optimize manpower, create manageable overall health plans for employees, and monitor any false or fraudulent claims. Effective usage of the system would greatly benefit both employees and companies.

#### **COWESS:**

- **Client:** 1) Polyplastics Asia Pacific Sdn. Bhd., Kuantan, Malaysia.
- **Technology:** C#, ASP.Net, SQL Server 2012, and Stimulsoft for reporting.

**Description:** Polylactic is the largest manufacturer of Acetal (POM) in the world and a supplier of Polybutylene Terephthalate (PBT), Manufacturing and Sale of various types of engineering plastics and polymers, right from the raw material to a product that will go through several processes. They have a few methods of producing their end products. Which will be automated from the location of the warehouse area, until the production desk. Currently, they have a system that is quite outdated. The new system completely automated all the progress of the production. And the aim of the system is to automate all the manual processes into a systematic operation and improve the quality of the production.

Benefits of Cowess software:

- All the raw material-related information will be captured in the system.
- • All the batching methods and the detail will be available in the system.
- The movement of current activity can be tracked from the system.
- The tracking of the completed and pending can be view in the system.
- The inventory will be automated using the system.
- All the data will be stored in a secure database.
- Improve the quality of the existing job.
- Any data can be easily retrieved for reporting purpose.
- Elimination of data duplication.
- All the excel datasheet can be replaced in database method.
- Management reports can be generated faster.

MODULES:

- OPE Code and OIS Module
- RAW Material Movement Module
- Batching Process Module
  - ❖ Batching
  - ❖ Standard Batching
  - ❖ Master Batching
- Weighing Module
- Execution Module (Android Program using PDA)
- QC & RE-RUN Module
- Dashboard & Report Module

### Barcode SAP Integrated System (BaSIS):

- **Client** : Petronas Craigie, Kemaman Supply Base (KSB), Kemaman, Malaysia.
- **Technology**: C#, ASP.Net, SQL Server 2012, and Stimulsoft for reporting.
- **Description**: BaSIS is used to create a bridge between SAP to .Net and vice versa by using RFC connectivity. This is an easy tool for receiving, dispatch and stock counting the warehouse materials by using a barcode. From the GRN module the user has to set the input parameters such as movement type, plant, and location and it will fetch all the GRN items from SAP and then they can print barcodes to stick into equipment. The received GRN quantity will be updated into material master according to material number and batch number in BaSIS. The picking list module allows the user to set material range, date range, plant and location as input parameters to fetch all the reservation and STO from SAP. For the MIT process the user scan barcode to issue MIT, so BaSIS will pass the parameter to SAP and it will return back the MIT number. PID module will fetch all the PID data from SAP to do the physical stock count and then the user scan barcode to do the stock count and post back into SAP.

### Online Asset Tracking System with RFID and Barcode:

- **Client** : 1) Kemaman Supply Base(KSB), Kemaman, Malaysia.  
2) Serba Dinamik Workshop, Labuan, Malaysia.  
3) Asian Supply Base(ASB), Labuan, Malaysia.
- **Technology**: C#, ASP.Net, SQL Server 2005, SQL Server 2012, and Stimulsoft for reporting.
- **Description**: This is based on Oil and Gas Industries oriented projects and it is having communication between platform users and warehouse users. The system is handling the materials like service, project, vendor, temporary storage, scheduled waste and CHE. Before sending the material, the platform users will make requests and then warehouse persons will do the approval through the system. Receiving materials are having the

option to print barcode to stick into it and also having the option to tag the RFID (Radio Frequency Identification) before keep it in storage. The RFID tag is used to monitor the materials. If the item is missing in action, the system sends an auto email alert to management. The RFID will be deactivated after they return the items.

#### **PCCAS – Petronas Carigali Cataloging Album System:**

- **Client** : Kemaman Supply Base(KSB), Kemaman, Malaysia.
- **Technology**: C#, ASP. Net, SQL Server 2005 and Stimulsoft for reporting.
- **Description** : This is a rich interactive album system with various user interfaces. PCCAS is specially designed and developed for the staffs of Petronas Carigali to maintain their inventory items' details. The Storage maintaining materials pictures will be uploaded in the system and they can update the status of the material and current location also. This system has slideshow controls and AJAX zooming . This is a web based software whereas the user can only view the product details and admin can modify the details. It's been developed in Dotnet versions.

#### **SELF PRINTING SYSTEM (SPS):**

- **Client**: 1) SEGi University, Malaysia.
- **Technology**: C#, ASP.Net, SQL Server 2012 and Stimulsoft for reporting.
- **Description**: SPS is the university recruiter management system. College management tracking recruiter details and process flow. We can create university management master data. University, Team, Department, Principal, HOD, Recruiter modules. Monthly report and graph modules

#### **Risk-Based Inspection (RBI)**

- **Client:** Cognize Technology, Malaysia.
- **Technology:** C#, ASP.Net, SQL Server 2012 and Stimulsoft for reporting.
- **Description :** Risk-Based Inspection is a methodology used to define inspection program requirements in refinery, petrochemical, chemical plants and other industries which have fired & unfired pressure vessels. As described by the API 580 Recommended Practice, the primary objective of RBI is that risk is taken into account when developing inspection plans on an equipment level. RBI is used to prioritize inspection, usually via the means of non-destructive testing, to determine the level of corrosion within each equipments. Typically items with high probability and high consequence will be given a higher priority for inspection than items which are high probability but failure has low consequence. This strategy allows for a rational investment of inspection resources

#### Restaurant Management System:

- **Client:** Asian Taste, Ampang, Malaysia.
- **Technology:** C#, ASP.Net, SQL Server 2005 and Crystal Report for reporting.
- **Description:** This is having main modules like Order module, Kitchen module, Cashier module and Admin module. The Admin module allows the users to add a new category in category master, add new menu item in menu master, add new table in table master and view the reports. The Order module will display all the items with pictures and user need to enter the order according to the table. The Kitchen module is divided into two as Food kitchen and Drink kitchen. After key in the order, food items will print at the food kitchen and drink items will print in drink kitchen. Once the kitchen status is activated, that order will be in the queue of cashier module. The cashier module lets the users to receive the cash and print the receipt.

### Business Tracking System:

- **Client** : Serba Dinamik Group, Malaysia.
- **Technology**: C#, ASP.Net, SQL Server 2005 and Crystal Report for reporting.
- **Description**: This is having main modules like PR Issue, PO Issue, DO Receive, Invoice Receive, PO Received, DO Issue, Invoice Issue and Master data modules such as supplier details, customer details, classification details, project details, location details, dept details, company details, staff details and user details. All the Purchase request will be created through the system and the purchase debt will be processed based on the quotation. Once the PR created the Dept head and superior person will approve through online then the user can issue the purchase order. The Do Receive module will record the delivery order info with DO number according to the PO. Invoice receives module record the invoice info after the delivery. The same way system record the received purchase order from the customer and issue the DO and invoice through the system. The benefits and expenses will be provided as performances of depts in the year end through the reports and charts.

### MSCS – Management System Certification System

- **Client**: SIRIM QAS International Sdn. Bhd, Malaysia.
- **Technology**: ASP.NetCore, Entity Framework, Angular, SQL Server 2019, and Stimulsoft for reporting.
- **Architecture**: Microservices Architecture



- Description: “SIRIM QAS International Sdn. Bhd. is Malaysia’s leading testing, inspection, and certification body.” the company established a wholly-owned subsidiary of SIRIM Group. Customers wanting to comply with internationally recognized standards have found their ideal solution in SIRIM QAS International’s certification scheme. As a partner of the International Certification Network (IQNet), management system certificates are globally recognized. Management System Certification Software (MSCS) 1.0 software has been developed and deployed based on the initial scope, and it has been for a live run since 07th August 2018. During the live run stage, the customer found few modifications to the current MSCS. To achieve full utilization among all the features, the system should have additional enhancements to develop the Request for Information (RFI), Application Review, Quotation, Scheduling, Audit, and Invoice module lively connection to all the modules. Integration with other existing business applications.

- o Modules

- 1) Client Module
- 2) Auditor Competency
- 3) Sales and Business Development Module
- 4) Application review Module
- 5) Scheduler Module
- 6) Auditor Module
- 7) Finance Module
- 8) Certification Module
- 9) Interface
- 10) Offline System – windows app(Mac/Windows)
- 11) Mobile Application - Flutter

#### MYPLANT:

- **Client** : Petronas Carigali Sdn Bhd, Paka, Malaysia.
- **Technology**: Visual basic, EVB, ASP.Net, C#, SQL Server 2005 and Crystal Report.
- **Description**: It is designed for operation and maintenance personal usage to record, monitor and manage plant equipment information. It is the complete data logging

system that includes software and hardware for plant performance and management activities. Which is developed in VB and ASP.Net.

#### **PPEI Inventory System:**

- **Client** : Kuality Alam, Seremban, Malaysia.
- **Technology** : Visual basic, ASP.Net, C#, SQL Server 2005 and Crystal Report.
- **Description** : This is to maintain inventory of personal protective equipment. Those all the equipment will be alerted before expired. The report shows the minimum stock level according to the product master then they can contact the supplier. Which is developed in VB and ASP.Net.

#### **Audiometric System:**

- **Client** : Klinik Syed Bahurudin, Kuantan, Malaysia.
- **Technology**: Visual basic, SQL Server 2005 and Crystal Report.
- **Description**: Audiometric System is used in clinics and hospitals. The software is used to keep track all the information related to the Audiometric test of the employees especially who work in a noisy environment like manufacturing sectors. This software will help to provide the reports related to the DOSH (Department of Safety & Health).