

# Fakhrul Azran Bin Naw

ICT Startup

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## Summary

I had a specialised experience in IT and engineering since 2004 and had heavily involved in providing end to end solution for various industry mainly in public transportation, cashless payment solution, embedded application system, mobile and IOT application.

Specific competences:

- Embedded Systems Solutions
- Low and High Radio Frequency (RF) Techonolgy
- Smart Card Technolgy Development
- IT Architecture
- Multi tier and Enterprise Systems Soutions

Project Experience:

- Public Transportation: 2004 - 2012
  - Rail Commuter AFC (Malaysia): 2011 – 2012 (2 years)
  - Single Lane Free Flow ETC (Phillipines) : 2010 – 2012 (2 years)
  - NewsRoom Systems: 2008 (1 year)
  - KIOSK Systems: 2007 (1 year)
  - Toll Collection Systems (Malaysia) – 2004 – Now (8 year)
  - Busway Ticketing Systems (Indonesia) – 2004 (1 year)
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## Experience

### **ICT Startup**

December 2013 - Present

### **Senior Executive Systems Analyst**

April 2012 - December 2013 (1 year 9 months)

### **Senior Engineer**

March 2009 - March 2012 (3 years 1 month)

Responsible in:

- Team leader for the front end development teams that involve in equipment control and bissunes logic for the Toll Collection Systems for overseas project.

Responsible in the design, implementation, and installation for the TCS.

- Software Manager for the Automatic Fare Collection for KTMB. Responsible in the design and managing teams and third parties vendor in delivering the products

### **Analyst Programmer**

March 2008 - March 2009 (1 year 1 month)

Responsible in:

- Maintaining the existing Interim CMS (ICMS). ICMS is the web base application purposely to handle the campus management for temporary.

- Design, and develop a new CMS. The new CMS are base on ASP.NET(MVC) with C# coding and SQL Server 2005. CMS is using an agile system approach. The others framework that are use in the CMS are NHibernate for ORM, Castle Windsor for IOC, ExtJs for Javascript.

### **Software Engineer**

March 2007 - March 2008 (1 year 1 month)

Responsible in:

Upgrading and converting the existing IPS Systems from Visual C++ assembly language to Visual C# (.NET)

### **Software/Systems Engineer**

October 2004 - February 2007 (2 years 5 months)

Responsible in:

- Design and upgrade a software for the front-end portion for Integrated Toll Collection Systems ( based on C and C++)

- Developed new small utility software that automate the human process base on clients request.

- Prepare the specification document such as functional, technical hardware, user manual.

- Conduct a FAT (Factory Acceptance Test), and TOC (Test On Completion Test) with the client after all the system installed.

- Communicate with supplier and client to ensure the project running without any problem and issue.

- Titled as third level system maintenance. Support the maintenance group for

completing their task.

- Provide a solution for integration between hardware devices and software especially in communicating using RS232 and I/O Board.

- Maintain Automatic Vehicles Classification System (AVCS) that provide a solution for vehicle classification. Based on Jackrabbit microcontroller using C language.

### **Industrial Trainee**

September 2003 - December 2003 (4 months)

- Troubleshoot all kinds of electronics product. The checking are including the short circuit test and using IC checkers machine.

- Create and produce a new electronics product especially in digital logic design using PIC and PLC.

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## Education

### **Multimedia University**

Bachelor of Engineering (B.Eng.), Electrical and Electronics Engineering, 1999 - 2004

### **Sekolah Menengah (A) Persekutuan Kajang**

Sijil Pelajaran Malaysia, Pure Science, 1994 - 1998

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[Contact Fakhrul Azran on LinkedIn](#)