

Mr. S SUTHAKARAN

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Availability: 1 Month Notice

Profile

Results oriented software engineer and research professional with 4.5 years of experience with MSc degree in Software Engineering, and experienced in using cutting-edge development tools. I make it my goal to create software with the user in mind, creating applications with a useable and intuitive user interface experience. Productive in team based and self-managed projects. I am constantly striving to learn new technologies and dedicated to main up-to date industry knowledge and IT skills.

Specialties

- Software Design and Development
- Problem/Data Analysis and Resolution
- Requirement Gathering and Analysis
- Software Testing and Troubleshooting

Domain Expertise

- High Precision Equipment Software for Semiconductor Industry
- SECS / GEM Standard Application Development
- Commercial and Industrial Laser Marking Software
- Web Application Back-End Development

Recent Interest

- Web and Mobile Apps
- Cloud Computing
- High Frequency Trading Applications

Technical Skills

Programming Languages	: C/C++, MFC/ATL, STL, Python, C#, XAML, VB6, SQL, HTML5, CSS3, JavaScript, XML
Frameworks	: WPF, ADO.NET, COM, WebPy, Heroku, MVC, LINQ2SQL, Static Analyzers, Matplotlib
Version Control Systems	: PVCS, SVN, GIT, Bit Bucket
Development Environment	: Visual Studio(2002-2012), MS SQL Server, MySQL, Eclipse
OS & Applications	: Windows, Mac OS, Linux, MS Office, GnuPlot , Photoshop, VideoCAD
Programming Paradigms	: Agile, OOP, SOA, Model Driven Development, Design Patterns

Professional Work Experience

Oct 2010 – Present Software Engineer ASM Technology Singapore Ptd Ltd.

Responsible for delivering software solutions on time with top quality for client engagements. Manage project deliverables, schedule and reporting on multiple development initiatives. Work with Process Analysts and Field Engineers to generate new requirements. Researched, Developed and presented new software modules and support tools to senior management.

- Onsite wire bonder software solution development for major semiconductor manufacturers, like Amkor, Cypress and Texas Instruments.
- Design and developed multithreaded SECS/GEM communication module, successfully deployed at Texas Instruments Production Lines.
- Design and Developed an API which reduce the wire bonder looping set up time to few minutes from hours (75% to 90%). Few button clicks will do the job for the user expectation.

- Successfully developed many mathematical models and algorithms for wire bonder solutions. Real Time Looping Motion Collision Detection, Looping Recipe Ranking and Forward Feed Control Error handling...etc.
- Delivered many support software tools for Research and Development.
- Delivered many software application prototypes for product development in short periods.
- Provide Training for End User about newly developed features.

Jan 2008 – Jan 2009 Software Engineer, Excel Technology Lanka (pvt) Ltd

Responsible for designing and constructing features for Laser Marking application. Constructed and presented requirement specifications and training materials for new customers, developers and managers.

- Developed Requirement specification and Functional Design Specification documents for the new user requirements and help QA team to develop test cases based on the specification before start the implementations.
- Greatly involved in UX design and implementation. Took the responsibility to migrate the older UX to latest concept using latest Microsoft technologies and third party tools and successfully completed within the deadline.
- Successfully achieved many redesigning and restructuring software modules of the legacy system in order to scale up the system to meet ever increasing demands.
- Successfully Developed a COM component to enable the remote access to Laser Marking Machines.
- Attended project and clients meetings and involved in requirements gathering and knowledge transferring sessions.

2006 Feb- 2006 July Trainee Electrical Engineer, IE Techniques Groups.

- Worked with R&D team to carry out testing and performance analysis of electronics and electrical products.
- Successfully re-designed a TV antenna booster for performance tuning.
- Produced and presented weekly and monthly reports to management and university.

Education

University of Leicester, UK, 2010

Major: Advanced Software Engineering

Degree: MSc (Distinction)

Thesis: Software Model Discovery from Code

University of Moratuwa, Sri Lanka, 2007

Major: Electrical Engineering

Degree: BSc (Second Upper)

Thesis: Automated High Voltage Relay Test Unit

British Computer Society, UK, 2006

Major: Information Technology

Degree: Professional Graduate Diploma

Hartley College, Sri Lanka, 2002

Major: GCSE A/L (Math A, Physics A, Chemistry B)

Degree: Secondary

Other achievements

- Associate member of British Computer Society, [AMBCS]
- Treasure of Tamil Literary Association, University of Moratuwa [2006-2007]
- Member of senior prefect board.
- Member of Under 17 Football Team [1997-1999]

References: Available on Request