

## SARASWATHI MURUGENDRAPPA



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Software professional with 11 years of experience as a Senior C++/Java Engineer with strong expertise across Industrial Automation, Transportation and Telecom. Exposure working with most of European clients (Italy, Netherlands, Germany and French based companies).

**Worked with Sogeti B.V, Netherlands.**

In her spare time, enjoys gardening, pet care, and creating Art works.

### Technical Skills:

- Application Development • Embedded development • C++ /Java/C#
- QT/MFC/MVC • OOPS/UML/Design Pattern • Good Debugging skills
- TTCN/TCL test scripts • Linux/Windows • SDLC/V modelling
- Agile • Software Engineering • Railways Signalling • CRM
- Telecommunication /Network domain • Industrial automation panel
- Visual Studio- QT Creator- Eclipse • Amazon Alexa

**ONSITE EXPERIENCE:** One Month for Project development in **Italy, (Milano).**  
**ESA ELETTRONICA S.P.A, MARIANO COMENSE (CO), ITALY.**

**Education :** Bachelor of Engineering(Computer Science)

**Nationality:** Indian

### WORK EXPERIENCE:

**Capgemini India pvt. Ltd. (Sogeti Netherlands)**

TOM TOM INTERNATIONAL B.V		
Role	Software Developer (Analysis, Development and Unit testing)	
Duration	Oct 2017 to Feb 2018	
Environment:	Window OS	Java, ElasticSearch (ELK), PowerBI and AWS
Project Description	NDS Map QA Test Automation Project:	
Contribution	<ul style="list-style-type: none"><li>• Automation test for the NDS Map.</li><li>• Investigation of the tool selection of Data Visualization.</li></ul>	

<b>ROBOTIC ARM</b>		
Role	Software Developer(Analysis, Development and Unit testing)	
Duration	May 2017 to Sep 2017	
Environment:	Linux OS	C ROS, Alexa, C++, JIRA
Project Description	Voice Recognition: Amazon's voice assistant Alexa is integration with the Robotic Arm	
Contribution	<ul style="list-style-type: none"> <li>• Requirement Analysis.</li> <li>• Solution definition of the use cases.</li> <li>• Implementation and integration.</li> <li>• Testing</li> </ul>	

<b>BOONEDAM NETHERLANDS</b>		
Role	Software Developer(Analysis, Development and Unit testing)	
Duration	September 2016 – April 2017	
Environment:	Linux OS	QT/C++
Project Description	A trilock based acces gateway deployed in most of the European	
Contribution	<ul style="list-style-type: none"> <li>• Requirement Analysis.</li> <li>• Development of GUI application/business logic using QT framework on Linux platform.</li> <li>• Unit test case implementation.</li> <li>• Mentoring team members on the requirement, design solution and giving Demo to Onsite Team based on the progress of development achieved.</li> <li>• Review the source code implemented by Team Members.</li> <li>• Source code standard achieved by using static tools Doxygen, CppLint and CppCheck.</li> <li>• Writing user stories for the new requirements in JIRA.</li> </ul>	

#### **Alstom Transport India Pvt. Ltd.,**

<b>RAILWAYS SIGNALING TOOLS</b>		
Role	Software Developer (Analysis, Development and Unit testing)	
Duration	June 2013 to July 2016	
Environment:	Windows OS	Visual Studio 2010 professionals, VC++,C++, MFC, QT.

Project Description	<p>GADS: generation of ATC Data tool for developing Data files for ATC.</p> <p>GDS: generation of track simulation files for Onboard.</p> <p>CAAPE: The CAAPE software package is used by in house Application Engineers as well as Customer Application Engineers. The package is used to develop interlocking applications for the VPI/VPI2/iVPI products.</p>
Contribution	<ul style="list-style-type: none"> <li>• Analysis/development and Testing.</li> <li>• Documentation for the architecture and detained design for Development.</li> <li>• Involved in Reviewing the Test Cases and Creating Traceability Matrix.</li> <li>• Process Management – tracking daily activities of the team member, Quality review, Release management.</li> <li>• Involved in Sprint Planning and Retrospective. Attending Daily Standups as a part of Agile Methodology and Updating the Status in JIRA.</li> </ul>

Worked at **Talisma Corp. – A Campus Management**

Designation: Senior Software Engineer.

Period: Jan 2011 to Dec 2012

CRM Migration		
Role	Software Developer(Analysis, Development and Unit testing)	
Environment:	Windows OS	C#,WCF, ASP.net(MVC). Visual studio 2010, TFS
Contribution	<ul style="list-style-type: none"> <li>• Involved in Business analysis, identifying business needs and determining solutions to business problem.Usecase for the business logic.</li> <li>• Development.</li> <li>• Documentation for design performed.</li> <li>• Developing Unit Test cases, involved in Dry runs and Formal Verification</li> </ul>	

Worked at **Huawei Technologies India Pvt Ltd.**

Designation: Software Engineer.

Period: June 2008 to Dec 2010.

M2000 and U2000 product ( Task management module and upgrade module) and GTR(General Test Runner)		
Role	Software Developer(Analysis, Development and Unit testing)	
Duration	June 2008 to Dec 2010	
Environment:	Linux , solaris and Windows OS	Java, ACE, Corba, C++, DB(Sybase ,oracle and SQL) , WinDBG,DBX, C++, TTCN, ASN, VS6, VS8
Project Description	<p><b>NMS/TMN product.</b></p> <p><b>GTR</b> is an Integrated Development environment (IDE) for developing TTCN and TCL test scripts for Functional and Protocol Conformance Testing used across various product lines in Huawei.</p>	

Contribution	<ul style="list-style-type: none"> <li>• Involved in Software Design, Development.</li> <li>• Involved in writing design document.</li> <li>• Unit Test case creation and execution.</li> <li>• Defect fixing.</li> <li>• Fixing memory leak.</li> </ul>
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Worked at **ESA Software and Automation India Pvt. Ltd.**

Designation: Software Engineer.

Duration: (Nov 2006 to June2008)

ESA Polymath		
Role	Software Developer(Analysis, Development and Unit testing)	
Duration	Nov 2006 –June 2008	
Environment:	Software/Technology	C++, MFC, COM, VC++, Embedded VC++
Project Description	Polymath, ESA elettronica S.p.a.'s new platform for programming panels, IDE for Programming Automation Panel for Controlling and Monitoring Industrial machineries.	
Contribution	<ul style="list-style-type: none"> <li>• Involved in Software Design, Development.</li> <li>• Involved in writing design document.</li> <li>• Unit Test case creation and execution.</li> <li>• Defect fixing.</li> <li>• Fixing memory leak.</li> </ul>	