

Suryakiran Maruvada

Software Engineer

Passionate C++/Qt developer with more than 3.5+ yrs of experience in building production grade software following strong design principles. Always eager to contribute to big challenging projects and learn from the complexities.



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📍 Lübeck, Germany

🌐 www.zigzagrainbow.com

🐙 github.com/SurKM9

WORK EXPERIENCE

Software Engineer gestigon GmbH

03/2017 - Present

Lübeck, Germany

merged with Valeo GmbH

Achievements/Tasks

- Currently developing a cross-platform user interface using Qt/C++ framework for annotating video sequences used for generating machine learning models.
- Designing and implementing frame by frame object detection and tracking methods using OpenCV in the video streams.
- Designing and implementing complete user interface to visualize amplitude, RGB and point-cloud depth data from Time-of-Flight, Radar and IR sensors.
- Experience with CMake, SVN and Git version control systems, bug-tracking and knowledge management systems like JIRA and Confluence.
- Experience in data extraction and post processing of 3D depth data and amplitude data using multi threading in C++11.

Engineering Intern

Fraunhofer-Institut für Fabrikbetrieb und - automatisierung IFF Magdeburg

04/2015 - 12/2015

Magdeburg, Germany

Achievements/Tasks

- Developing computer vision algorithms like SURF detection, Marker detection & Optical flow.
- Hands on experience with embedded single board computers like Raspberry Pi 2, ODRROID-XU4.
- Tools & libraries: Visual Studio, OpenCV, QtCreator, C++.

Master thesis

Otto-von-Guericke-Universität Magdeburg

01/2016 - 02/2017

Magdeburg, Germany

Achievements/Tasks

- 3-D hand gesture recognition with different temporal behaviors using Hidden Markov models and Kinect.

EDUCATION

M.Sc. Digital Engineering

Otto-von-Guericke-Universität Magdeburg

10/2013 - 03/2017

Magdeburg, Germany

B.Sc. Electrical & Electronics Engineering

Biju Patnaik University for Technology

05/2005 - 05/2009

Rourkela, India

SKILLS

CMake C++11 Git SVN JIRA

Qt Boost Multithreading

SonarQube Visual Studio Windows

Linux YAML Cross Compilation

Agile Scrum OpenCV

ToF Sensors SOLID Radar Sensors

Infrared Sensors

PERSONAL PROJECTS

Personal Blog (05/2020 - Present)

- Educational website related to C++/Qt framework.
- www.zigzagrainbow.com.

LANGUAGES

German

Limited Working Proficiency

English

Full Professional Proficiency

Hindi

Full Professional Proficiency

Telugu

Native or Bilingual Proficiency

Odia

Full Professional Proficiency

INTERESTS

Badminton Programming Cricket

Tech Gadgets Music

Photography