

MEGHANA

Software Engineer



CONTACT

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Location: Stuttgart, Germany

Languages: English (Fluent – C2),

Deutsch (Beginner – B1)

Availability - Immediately

TECHNICAL SKILLS

Programming languages:

- C/C++: Intermediate
- Python : Basic
- MATLAB : Basic
- VHDL : Basic

Tools, Frameworks and Platforms:

- Vector CANoe
- STM32 DS for ARM
- Enterprise Architect
- Microsoft Visual Studio
- Lauterbach TRACE32 Vector
- SEGGER J-Link/ J-Trace
- Ozone(x64)
- Lipowsky LINWorks
- LDRA Testbed
- Confluence
- Bitbucket
- UDS via CAN
- I2C, SPI, LIN
- vFlash
- ODX
- Raspberry-Pi
- Arduino
- Xilinx-ISE

SUMMARY

Seeking a Software Engineer role to apply my skills, embrace new technologies, and contribute to impactful, innovative projects.

- **5 years** of experience, and optimizing embedded systems.
- **Designing, developing, debugging and troubleshooting.**
- **End-to-end software development**, following **ASPICE** and **AUTOSAR** standards.
- Proficient in **RTOS, device drivers, and communication protocols.**
- A **collaborative team player** delivering **reliable and high-quality software solutions.**

PROFESSIONAL EXPERIENCE

Embedded Software Engineer

May 2022 – Dec. 2023

Da Vinci Engineering GmbH(Stuttgart, Germany)

Project: "Embedded software development for automotive tail lights at Odelo GmbH" –

- **Designed, developed and tested** software by achieving a **13% reduction in development time** and **100% on-time delivery** through collaboration with hardware and system engineers.
- Ensured adherence to **ISO 26262** standards, **improving software reliability by 30%** and enhancing safety and regulatory compliance.
- Managed requirements, coordinated **agile sprints** and implemented version control to enhance teamwork, transparency, and efficiency.
- Optimized **UDS over CAN** protocols to improve diagnostic accuracy by 40%, while proactively addressing 45% of project risks, reducing post-release defects by 15% and ensuring a stable product.

Work Student

Oct. 2021 to Dec. 2021

Siemens Energy Power Control GmbH(Langen, Germany)

Project: "Identification of Dynamic Process Behaviour" –

- Analyze the acceptable lower limits of the test signals in simulated processes and with the always present noise.

Student Intern and work student

Dec. 2019 to Nov. 2020

Robert Bosch GmbH (Leonberg, Germany)

Project: "Athena video sensor for automobiles" –

- Software Unit and module testing and Software quality management.

Senior Software Engineer

Oct. 2014 to Aug. 2017

Robert Bosch Engineering and Business Solutions Private Limited (Bengaluru, India)

Project: "Mono Multi-Purpose Camera and Stereo Vision Camera for Automobiles"

- **Designed** a precise **lens sensor calibration module** in an **AUTOSAR** environment in RTOS automotive applications, adhering to ASPICE and ISO 26262 standards.
- Resolved 40+ software defects, **leading root cause analyses** and achieving a 15% reduction in system issues.

- MATLAB-Simulink
- GENy, Flux, GTest
- ChronSIM, SIL with ADTF
- Microsoft Office
- Picoscope, Oscilloscope

Software development methodologies:

- Agile
- Scrum

CORE COMPETENCIES

- Leadership and Team management skills
- Risk Management
- Mentorship and Team Development
- Stakeholder Communication
- Model-based development.

- **Managed timelines and deliverables**, facilitating stakeholder meetings, addressing client feedback, and ensuring on-time milestones.
- Documented processes to streamline onboarding, reducing developer ramp-up time by 20%, while **mentoring junior engineers and fostering team growth**.

EDUCATION

Bachelor of Engineering in Electronics and Communication

SJB Institute of Technology under Visvesvaraya Technological University – 2014
(Bengaluru, India)

PROJECTS

- “Detection and Analysis of Radar Signals”, 2014.
- “DRT Real-Time (Embedded) Analyzer using STM32 Controller”, 2019.
- “Design and simulation of an Analog to Digital Converter in VHDL/VHDL-AMS using AD7922 controller”, 2019.
- “Histogram, Segmentation, Morphology, Thresholding, Filtering and Edge detection using Raspberry Pi”, 2019.

SEMINARS

- Hardware Acceleration- Image Processing – 2017
- Night Vision System in Automobiles – 2018
- Serial Peripheral Interface – 2018
- Contributions from Evolutionary Perspective – 2018