ASHOK CHANDANE

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☆ Indian (EU Blue Card - Residence and Work Permit)

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SUMMARY

Experienced embedded software engineer with over decades of experience in all phases of the software development life cycle including requirement, architectures, development, tests, software quality and process management.Proficient in embedded C, RTOS, hardware-software integration, and real-time systems. Exceptional debugging, testing skills, and optimizing systems to meet stringent performance along with safety & cybersecurity standards. Proven leadership in cross-functional international teams, with high-quality solutions on time and within budget.

PROFESSIONAL EXPERIENCE

Software Team Leader

BURY GMBH & CO. KG

📅 05/2022 - Present   📍 Loehne, NRW, Germany

- Developed foreign object detection for a 15W wireless charging device for vehicles, utilizing Infineon TRAVEO microcontroller based on ARM CORTEX M4
- Developed comprehensive test plans and strategies for inductive chargers compliant with Automotive SPICE, KGAS (VW Group), ISO 26262 (functional safety), and ISO 21434 (cybersecurity) standards for major OEMs in automotive domain with the highest degree of quality assurance
- Evaluated and deployed unit testing and integration testing tool (TESSY) configuration to execute tests on target compiler and automated testing process which significantly reduced testing time to 50%
- Mentored a diverse team of 18 developers from Poland, Egypt, and Germany implementing agile and software development best practices

Lead Engineer

FAURECIA INDIA PVT LTD (FORVIA)

📅 05/2018 - 05/2022   📍 Pune, Maharashtra, India

- Designed and implemented software features for entire seat ECU's motor control, actuator, relay control operations utilizing ARM microcontrollers
- Developed pneumatic control(using 2/2, 3/2 solenoid valves) operations for seat wellness features such as massage, lumbar, bolster features, and UDS diagnostic applications using embedded C and MATLAB
- Developed embedded firmware functionalities, including PWM, ADC, TIMER, and Watchdog, communication protocols such as UART, SPI, I2C, CAN, and LIN
- Developed features such as seat learning mechanism, child safety, easy entry-exit, anti-theft, dynamic user configurable massage pattern and decreased acoustic noise from solenoid valve and designed Unit Test and integration tests

Senior Software Engineer

HCL TECHNOLOGIES LTD (Client : JOHN DEER)

📅 09/2015 - 04/2018   📍 Pune, Maharashtra, India

- Developed software for lighting ECU's for off-road vehicles (agricultural, construction, and forestry equipment) and OBD diagnostics utilizing proprietary RTOS (JDOS), embedded C and MATLAB.
- Integrated applications, performed root cause analysis, debugging, fixed defects and authored release documentation.

Embedded Developer

SPRYLOGIC TECHNOLOGIES LTD

📅 04/2012 - 08/2015   📍 Pune, Maharashtra, India

- Designed and developed software applications and device drivers in C for solar-powered 1KVA home UPS and inverters. Developed battery charging control solutions and optimized power distribution applications to enhance efficiency.

EDUCATION

Bachelor of Engineering (B.E.) in Electronics and Telecommunication

Vidya Pratishthan's College of Engineering, Pune University

📍 Pune, Marashtra, India

SKILLS

Technical

C, CAPL, ASPICE, AUTOSAR, CAN, LIN, UDS, OBD, J1939, RTOS, UML, I2C, SPI, UART, ARM, V-Model, Python, DSP, microcontrollers, MISRA, HIS, CERT, ISO26262, ISO21434

Tools

DOOR's Next Generation (DNG), Polarion, JIRA, GIT, Jenkins, SVN, CANoe, LDRA, TESSY, MATLAB, Simulink, Enterprise Architect, Vector Tools, Eclipse, Visual Studio Code, Coverity, IBM Test Management, Polyspace, IBM Rationale Team Concert

LANGUAGES

English	Proficient
German	Intermediate
**Marathi	Hindi**	Native

CERTIFICATION

Scrum Product Owner (CSPO)
SrumAlliance

ISTQB AUTOMOTIVE TESTER - SPECIALIST
SJSI (POLISH TESTING BOARD)

ISTQB CERTIFIED TESTER - FOUNDATION LEVEL 4.0
GERMAN TESTING BOARD

KEY ACHIEVEMENTS

⭐ **Achieved ASPICE level 2 for ISO26262 and ISO21434 complaint projects**

Successfully led and implemented process improvements to meet ASPICE Level 2 compliance for software development projects, enhancing process maturity and ensuring alignment with automotive industry standards

⭐ **Reduction of solenoid valve noise by 5db from automotive seat**

Delivered solution to reduce acoustical noise by 5 dB in the seat ECU wellness system (massage and lumbar support) by smoothening solenoid valve operations. This approach minimized noise from sudden air pressure release, and the solution was successfully validated in an acoustic chamber, improving overall user comfort

REFERENCES