

GEOFREY SENDEGE

Self-driven DTU Engineer with proven experience in Danish Med industry

PERSONAL INFORMATION

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PROFILE

Resourceful Computer and Electronic Test Engineer with over 16 years of experience in quality assurance, trouble shooting, verification, validation and interoperability integration tests of digital products and services. I have gained extensive practical test experience with software that interfaces with physical dental hardware and industrial applications such as intraoral, lab scanners, 3D printers and milling machines. I am skilled in managing and optimizing test processes, improving test coverage, and ensuring timely delivery of high-quality solutions.

My proven interpersonal skills have helped me to promote positive relationships, be a reliable team player, and contribute to a collaborative and inclusive work environment. I put great focus on bridging the gap between end-user demands, external partners, developers, regulatory requirements, and organization's goals for quality.

I have a strong commitment to excellence and take ownership and responsibility for delivering high-quality work while meeting deadlines. My professional ambition is to dive deeper into new testing challenges related to identification and elimination of defects or bugs within applications. The main drive behind this ambition is to achieve a reliable, stable, and great end-user experience.

PROFESSIONAL SKILLS

- Test Process Management
- Software Quality Assurance in Industrial Applications
- Root Cause Analysis, Troubleshooting and Diagnosing Complex technical Issues
- Test outcome documentation & bug reporting
- Stakeholder management & end-user interaction
- Technical mindset (service & repair)

PERSONAL SKILLS

- Analytical, resilient & creative in problem solution
- Effective communication and technical writing skills
- Curious with passion for details and fast learner
- Disciplined and team player.
- Quality- and business minded
- Proactive and adaptive to changing circumstances.

TOOLS

- Jira, Jama & Confluence (Super user)
- Methodologies: Agile
- Programming languages: basic, C++/C#
- Validation tools: Convince, Calibration tools (for 3D Printing and Milling), Soldering.
- Operating systems: Windows for testing environments.

PROFESSIONAL EXPERIENCE

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3Shape is a leading provider of digital products and services to the dental industry, including inter-oral scanners, laboratory scanners, dental CAD SW, and clinic/laboratory management systems.

2022- Current Test Engineer & Manager Test Lab: Lab Studios department

Responsibilities:

- Conducted validation tests for complex dental equipment interfacing with software ensuring precise calibration and performance.
- Managed test life cycle for software that interfaces with industrial hardware, including 3D printers and milling machines, ensuring that systems meet dental industrial-specific requirements and standards.
- Collaborated with cross-functional teams (R&D, external partners) to execute tests and trouble shoot software for complex industrial setup.
- Optimized test procedures by improving test coverage and documenting best practices, ensuring high precision in software-hardware interactions.
- Designed and executed real time end-to-end validation workflow tests e.g 3Shape Produce in house production with pre-integrated 3D Printers.
- Provided technical customer support e.g. installation, troubleshooting, analyzing the root cause of defects, and reporting bugs in deployed software at beta testers premises.

Main achievements

- Liaised, and integrated over 70 dental 3rd Party Software and Hardware systems into 3Shape dental workflows e.g. Formlabs, SprintRay, Dentsply Sirona, DGSHAPE, Asiga, VHF dental CAD/CAM systems.
- Reduced system defects by 30% through enhanced root cause analysis and process improvements.
- Developed over 20 technical guides that simplified end user experience for customers interacting with industrial systems.

2014-2021 Validation Test Engineer & Manager Test Lab: Clinical Business Department

The main purpose of in-house validation tests was to release a Trusted Connection between 3Shape Software and external partners (mills and 3D printers).

Main responsibilities

- Supported validation and verification of dental test equipment.
- Conducted risk-based test analysis to identify potential system failures.
- Documented taxonomy of defects, root causes, risk scenarios for new 3rd party systems.
- Designed, implemented, and executed in-house verification and validation test procedures to ensure all new 3rd party CAD/CAM software and hardware applications meet standard dental requirements. E.g. avoid margin chipping and loose fit of milled Crown.

Main achievements

- Developed default end-user CAD settings for various integrated 3rd party systems.
- Realized a Trusted connection between 3shape & 3rd party systems, providing a stable and robust end-to-end experience.
- Reduced system failure risks by identifying and resolving fundamental defects.
- Measured, analyzed, and assessed the quality of output test dental designs as a result

2008-2014 Integration Test Engineer & Manager Test Lab: CAMbridge department

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Main responsibilities

- Prepared and executed initial tests (smoke tests) of external 3rd party systems before integration, for instance, dental milling machines and 3D dental printers.
- Prepared and executed integration, verification, and test procedures.
- Setup test environment for software and hardware integration tests.
- Analyzed, evaluated, and documented test results from all test environments, for instance, feedback from internal system tests, and exploratory and defect-based reports.

Main achievements

- Successfully integrated 100 + external 3rd party CAD/CAM systems into 3Shape dental workflow. e.g., Next dent 3D system, Rapid shape.
- Over 40% were influenced by hardware design changes based on practical test feedback.
- Maintained a functional test lab environment for staging & production.
- Followed up, reported, and communicated identified integration defects to relevant internal or external parties for fixing until the system was ready for validation. e.g. bug reports.
- Written technical end-user guides for the final integrated dental workflow products.

EDUCATION

2008	Bachelor: Computer and Electronic Engineering	Technical University of Denmark (DTU)
2000	Diploma: Electrical and Electronic Engineering	Kyambogo University Uganda

CERTIFICATION

2022	Certified Tester: ISTQB Advanced Level Test Analyst Brightest GmbH ISTQB
2019	Certified Tester: ISTQB Advanced Level Test Analyst Danish Software Testing Board

LANGUAGE

English	ILR level5		
Danish	ILR level1	Dansk Uddannelse 3 (DU3)	VSK Glostrup Copenhagen
Denmark			
Swedish	ILR level1	Swedish for immigrants (SFI)	Komvux Malmö Sweden
German	ILR level1	Diploma Benedits Sprach Schule Munich	Germany

HONORARY POSITIONS

Treasurer:	Uganda Danish Cranes FC	Kastrup Copenhagen
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PERSONAL INTERESTS

Music:	Music composition, songwriting, singing, and playing musical instruments
Sports:	Playing football.

Originally born and raised in Uganda, moved to Denmark via Germany where I pursued higher education in Computer and Electronic engineering at Engineering College of Copenhagen currently DTU. Now married with two children. In my free time, I sing in the choir and write and compose music, and I volunteer by providing career guidance for immigrant youth.

REFERENCES:

Available upon request