KEN VERNAILLEN'S CV

CONTACT INFORMATION

Name: Ken Vernaillen
Address: Keirekenslos 10, 1770 Liedekerke, Belgium
Email: ken@digitalexpertise.be
Phone: +32498598224
Languages: Native Dutch, Professional English, Basic French
Company details: Digital Expertise BV / VAT BE0700188263

PROFESSIONAL SUMMARY

Dynamic IT professional and freelancer with over 6 years of expertise in software quality assurance, risk management, and IT auditing. Expert at facilitating communication between technical and management teams, with a proven ability to enhance software strategies and operational efficiency through insightful analysis and strategic advice. Specializes in non-functional requirements engineering, software quality advising, and possesses a strong entrepreneurial mindset. Passionate about teaching, presenting, and driving innovation within IT and business domains.

SKILLS

- **Technical Expertise:**
  - ISO25010 standards, IT audit tools and methodologies, non-functional requirements engineering, software risk assessment.
  - Software Development, Software Quality Assessment, Cyber Security.
  - Skilled in translating complex technical details into actionable business insights.
- **Communication and coaching:**
  - Effective communicator across technical and business domains.
  - Experience in coaching and mentoring in software quality and programming.
- **Leadership and Innovation:**
  - Leadership in product development and continuous improvement.
  - Driving innovation in software quality advisory.

PROFESSIONAL EXPERIENCE

Technical Consultant | Software Improvement Group (SIG)
July 2018 - Present

- Facilitating fact-based communication and alignment between technical software developers and management, ensuring seamless collaboration on software requirements.
- Providing expert guidance leveraging the ISO25010 framework to analyze codebases and identify areas for improvement.
- Audited over 60 companies (e.g., Digitaal Vlaanderen, AlbertHeijn, Alliander, Rijkswaterstaat), specializing in risk assessments, quantifying and mitigating technical debt, legacy modernization, software cost estimation, IT Due Diligence, non-functional requirements, and proactive software quality monitoring.
- Analyzed more than 50 programming languages and frameworks to evaluate maintainability, security, privacy, performance, reliability, architecture quality, usability, documentation quality, library management and adherence to development best practices.

- Continuously advised more than 20 companies on mitigating technical debt, improving software quality by proactive monitoring, development productivity and aligning IT strategies with business goals.
- Translating technical analysis into actionable insights, identifying and communicating potential business risks to guide management in making informed decisions for efficient and future-fit software strategies.
- Driving continuous improvement and innovation by actively engaging with clients, fostering a feedback loop to enhance Sigrid, developing innovative ways to enhance management guidance and creating reusable courses that enabled the SIG Academy.

Co-Founder and Product Developer | Bevolve
March 2016 – Present (while in university)

- Led the development and maintenance of MOBY, a patented automation device for testing train brakes, which improves the brake testing time up to 40%. (CE and TÜV conform)
- Oversaw the entire product lifecycle, from problem analysis and requirement gathering to process flow design and optimization, iterative usability study, prototyping, programming of embedded software, mobile app, dashboard and backend, and releasing a market-ready product that is used 24/7.
- Coached two students during their internships.

(Guest)Lecturer Usability Engineering / Software Testing | Erasmushogeschool Brussels
September 2015 – February 2016 (while in university)

- Taught courses in usability engineering and software testing (including distance learning).
- Guided students in practical projects.

EDUCATION
Vrije Universiteit Brussel
2015 – 2018 Incomplete / Unfinished master's thesis due to other opportunities
Master of Science in Applied Sciences and Engineering: Computer Science – Web and Information Systems (WISE), Computer Engineering

2014
Transition programme (from professional to academic bachelor)
Master of Science in Applied Sciences and Engineering: Computer Science, Computer Engineering

Instituto Politécnico de Viseu
2014
Study Abroad, Erasmus, Computer Software Engineering

Erasmushogeschool Brussel
2011 – 2014
Bachelor's degree, Computer Software Engineering, Laureate | Magna cum laude

PATENTS
EP3476679B1: Patented method and device for automating safety checks of train braking systems, resulting in a more efficient and reliable inspection process.

HOBBIES AND INTERESTS
Passion for surfing, playing music, and traveling.
Creating innovative, solution-oriented business ideas.