

TARIK EL-AZZOUZI

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SYNOPSIS

Expert in reliability/quality/maintenance engineering, continuous improvement, Six Sigma, quantitative analysis, life cycle cost planning and optimization with experience in research, setting up programs and best practices, coaching, hands-on engineering and consulting.

- 5 years of experience consulting companies in reliability-related projects or setting up programs and training them in various areas of specialized reliability engineering.
 - Experience within companies affecting change, working on reliability improvements and product assurance activities and championing continuous improvements initiatives.
 - Six Sigma experience improving process control and reducing defects in a manufacturing environment.
 - Project management experience in product development and process improvement. Ability to plan, prioritize and manage complex projects under aggressive deadlines. Natural ability to establish consensus among across functional lines.
 - In addition to consulting/coaching for various industries, I have direct experience in semiconductor, heavy equipment/automotive, solar energy, manufacturing and laser/optics.
 - Dependable, capable of creating visions and executing plans, creative, dynamic team player, proactive, self-starter, effective communicator, seasoned presenter and coach, challenge enthusiast, strong analytical and problem solving skills, keen instincts to quickly effect change.
 - Multilingual. Multicultural experiences and extensive domestic and international business travel.
 - MS in Reliability and Quality Engineering. ASQ Certified Reliability Engineer. Expert in many reliability and continuous improvement software packages.
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SKILLS

- **Reliability & Quality:** Life Data Analysis (Weibull), Accelerated Life Testing, Reliability Growth, FMEA, DRBFM, SPC, Six Sigma, Lean Manufacturing, ISO9000, System Reliability Maintainability Availability, Fault Trees, FRACAS (CAPA), Design for Reliability (DfR), MSA, COPQ, DMAIC, Reliability Centered Maintenance (RCM), Preventive Maintenance, Condition Based Maintenance, Life-Cycle Cost Analysis, Burn-In, HASS/HALT, Crow-AMSAA, Reliability Allocation, Reliability Prediction, MTBF, 8D, DFSS, Monte Carlo, Simulation.
- **Reliability & Quality Analysis Software:** BlockSim 7, Weibull++ 7, ALTA 7, RGA 6, RCM++ 4, XFMEA 4, XFRACAS, Minitab, MatLab, RENO, DecisionTools, AtRisk, Arena.
- **Other:** DocBase (Document Control System), MS Office, FrontPage, Outlook, Windows, SAP, Visual Basic, Java, C.
- **Languages:** English, French. Basic understanding of Spanish.

WORK EXPERIENCE

Spectra Physics (Newport Corp) - Tucson, AZ

Senior Reliability Engineer

3/2008 – Present

- Part of a product assurance group responsible for quality management, reliability, ISO certification, Six Sigma deployment, RMA, supplier quality, failure analysis, documentation and process control.
- Work closely with product development, research, production, testing, outside testing firms, suppliers, quality assurance and marketing to create and oversee reliability analysis and testing plans in high pressure and high paste environment.
- Communicate to management the state of products' reliability and make recommendations.
- Oversee and create DfR plans including the use of FMEA, HALT/HASS, FA, ALT, normal life testing and supplier qualification.
- Involved first hand in testing. Coordinate testing technicians and optimize the use of resources.
- Identify additional opportunities of improvements, start company wide initiatives and coach others.

ReliaSoft Corp - Tucson, AZ

Research Scientist/Reliability Engineer

5/2003 – 5/2004 & 10/2004 – 3/2008

- Played a key role in conducting reliability consulting projects for customers in various industries.
- Developed and taught companies in various industries an array of executive and in-depth courses and seminars for reliability engineering.

- Conducted theoretical studies and analysis for cutting-edge reliability methodologies and processes.
- Project leader for a new software product (Reliability Growth Analysis [RGA 7]).
- Joined C-level and VP level executives on strategizing products offering and market penetration.
- Served as a catalyst for successful launch and overseeing of many company initiatives for marketing, internal improvement procedures and cross-departmental activities.
- Defined requirements, validation and test plans for new advanced reliability analysis software packages.
- Assisted in localization strategies. Translated from English to French 2 products containing over 400 pages of captions and documentation. Assisted in the translation of 2 other products.
- Authored over 80 articles for two reliability magazines (Reliability Edge, Reliability HotWire).
- Conducted theoretical studies and analysis for cutting-edge reliability methodologies and processes.
- Coauthored and edited 2 reference books (life data analysis, accelerated life testing).
- Conducted direct product demonstrations and sales webinars.
- Drafted proposals and bids. Represented company in conferences and expositions.
- Assisted in organizing symposiums and reviewing submissions.
- Helped create marketing material, advertisements, web announcements, presentations and brochures.

John Deere - Charlotte, NC

Temporary Assignment (Reliability Engineering)

6/2004 – 9/2004

- With joint agreement between ReliaSoft & John Deere, tasked with improving the reliability analysis process in the product verification division of John Deere.
- Enhanced and spread the use of quantitative reliability analysis in the division.
- Defined reliability goals and assessed reliability growth during the developmental and production phases of a new mowing product.

University of Arizona & Global Solar - Tucson, AZ

Graduate Research Assistant (Manufacturing and Quality)

1/2003 – 5/2004

- Implemented process monitoring and improvement techniques to reduce variability, improve quality and optimize yield in a CIGS photovoltaic semiconductor manufacturing line.
- Used SPC, DOE, Automatic Process Control and Run-to-Run methods for quality control.
- Implemented software tools to be used for decision-making, quality control and yield optimization.
- Non-conforming units were significantly reduced helping company regain market share.
- R&D project was the basis for my master's thesis (December 2004).

EDUCATION & CERTIFICATIONS

- 2004 M.S. in Quality & Reliability Engineering University of Arizona GPA: 3.8/4.0
- 2000 B.S. in Computer Engineering University of Arizona GPA: 3.4/4.0
- Certified Reliability Engineer American Society of Quality (ASQ)

SPEECHES, PUBLICATIONS & AFFILIATIONS

- American Society of Quality - Tucson: speaker, attend board meetings, organize events, coach members.
- Toastmasters Int.: Present speeches, coach members, oversee meetings, participate in workshops.
- 2008: Coauthor of the *Accelerated Life Testing Analysis* chapter in *Handbook of Performability Engineering*.
- 2007: MC for the International Applied Reliability Symposium, San Diego.
- 2006: Won 1st place in a public speaking competition, Tucson District, International Toastmasters.
- 2006: Presenter in a ASQ panel discussion on the legal, engineering and managements aspects of recalls.
- 2005: Presenter, "Reliability for the Quality Professional," at the American Society of Quality.
- 2004: Guest speaker at the Univ. of Arizona to speak about my achievements and the reliability field.

OTHER WORK EXPERIENCES

Applications Engineer, Altera Corporation - San Jose, CA

- Played a pivotal role linking voice of customers, design engineers, manufacturing and marketing.

Technical Specialist, Rain Bird - Tucson, AZ

- Achieved one of the highest performance records in the customer service department.

Research Scientist and Lab Assistant, ECE Dept & AME Dept U of Arizona - Tucson, AZ

- Helped students use various electronic equipment, parts and troubleshoot failures.

STATUS: Permanent US Resident