

John N. Zorich, Jr.

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CORE COMPETENCIES / EXPERIENCES related to QA/QC, R&D and Manufacturing

- Extensive professional experience teaching Applied Statistics since 1999
- Very experienced with Excel for statistical applications (some familiarity with Minitab)
- 1979-1999, fulltime employment in Biomedical R&D, Manufacturing, Product Support, QA/QC
- 2000-2014, half-time as a MDD/ISO/CE "Notified Body" auditor for the European Union
- Statistical consultant, part-time starting in 1999, "full-time" starting in 2014.

STATISTICAL and MATHEMATICAL CONSULTING CLIENTS (partial list)

- Hoya Medical (Chino Hills CA) (eye implants; statistical consulting for PMA supplement)
- Duke Empirical (Santa Cruz CA) (contract design & manufacture of medical devices)
- WAKO Pure Chemicals (Mountain View CA) (pharmaceuticals)
- KEMA/DEKRA (Chalfont, PA) (review of statistical claims in medical-device technical files)
- American Mathematical Association TYC (as a proof-reading editor for their quarterly Journal)
- More than 100 other companies, mostly medical device manufacturers, mostly in Silicon Valley

FORMAL STATISTICAL CLASSES, SEMINARS OR WEBINARS (partial list) GIVEN FOR

- Abbott Vascular (Menlo Park)
- ASQ Statistics Group, and ASQ Biomedical Group (Santa Clara Valley chapters)
- ASQ Ft. Worth, Annual Quality Conference (2013)
- ASQ Houston, Annual Quality Conference (2015)
- ASQ World Conference on Quality & Improvement (2014)
- Boston Scientific/EPI (Santa Clara, CA)
- KEMA/DEKRA (Concord, CA) (multiple times, for their MDD/CE auditors)
- Novellus (San Jose CA, and Tualatin OR)
- Ohlone College (San Jose, CA) (industry-focused 3-day course, annually since 2005)
- San Jose State University (Calif.), Graduate Dept. of Biomedical Eng. (annually since 2018)
- Siemens Medical Solutions (Concord, CA)
- Silicon Valley Polytechnic Institute (San Jose)
- TUV Product Service (SUD), USA (in 2002, for all of their quality systems & MDD/CE auditors)
- Multiple commercial for-profit training companies, 2014 — 2020

EDUCATION and TRAINING and PUBLICATIONS

- BS and MS from the University of California (Botany, with emphasis in chemistry and math)
- ASQ Certified Quality Engineer: 1996, 1999, 2002, 2005, 2008, 2011, 2014, 2017, 2020
- *Reasonable Confidence Limits for Binomial Proportions* (2010, in *MD&DI Magazine*)
- *Four Formulas for Teaching the ...Correlation Coefficient* (2017, in *MathAMATYC Educator*)
- *Reasons for...the Signed Coefficient of Determination* (2018, in *MathAMATYC Educator*)
- *Reasons for No Longer Teaching the Normal Approximation Confidence Interval* (2021, in *MathAMATYC Educator*)

STATISTICAL SPREADSHEETS (partial list) designed, developed, and sold by John Zorich

- *VARIABLES DATA SPC, and COUNT DATA SPC* -- for corporate-wide SPC efforts
- *RELIABILITY STATISTICS BASICS* -- simplifies standard component reliability calculations
- *RELIABILITY & DISTRIBUTION PLOTTING* -- calculates reliability for non-normal distributions
- *POWER CURVES FOR T-TESTS* -- simplifies calculation of the statistical power of t-tests.
- *GAGE STATISTICS* -- simplifies calculation of bias, correlation, R&R, linearity, guard-banding.
- *NORMALITY TESTS & NORMALITY TRANSFORMATIONS* -- 10 tests, 14 transformations